

## PRESIDENTIAL ADDRESS.

## A SURVEY OF AUSTRALIAN ICHTHOLOGY.

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[Delivered 25th March, 1964.]

The word Ichthyology is generally taken to mean the science or study of fishes. A more engaging interpretation, at least to my mind, was supplied as long ago as 1836, when *The British Cyclopaedia of Natural History* ("by authors eminent in their particular departments" and therefore anonymous) stated that Ichthyology "means 'the voice of the fishes' or the account they can give of themselves, not in words, of course, for fishes are remarkable for their silence, but in such facts and relations as human observation can collect concerning them".

Nowadays we know, as our eminent nineteenth-century authors did not, that fishes can make enough noise to confuse the hydrophones of submarine listeners, but our ears do not normally hear them. So, deaf to their protests, I presume to act as their spokesman and shall try briefly to survey the "facts and relations" which have accumulated concerning Australian fishes over the last three and a half centuries.

The earliest documents about Australian fishes are the paintings and rock-engravings of the aborigines whose message now is silent as their subjects. Fish paintings dating back to the third millennium B.C. have been recorded from Baluchistan (Hora, 1956, *Mem. Indian Mus.*, 14 (2): 73, figs), but Australian aboriginal art is much younger, some of it extending into historical and even modern times.

Written records by white men refer back to A.D. 1606, when Prado in Torres Strait mentioned albacore and the floating eggs of fishes. The Dutch sailor, Carstenzoon, noted "sharks, swordfishes and the like unnatural monsters" in the same area and was delighted to find "plenty of delicious fish" in the Gulf of Carpentaria in 1623, but Tasman left no record we can trace of any Australian fish, even though he was the first white man to remark upon the humpback whale migration and he noted mussels in Tasmania.

The Dutch seamen, with Willem de Vlamingh on his visit of 1696-7 to Western Australia, observed a remarkable fish, about two feet long, with a round head and sort of arms and legs, and even something like hands. Perhaps this was an Angler fish.

When Dampier paid his second visit to Australia, in the "Roebuck" 1699, he had aboard an artist who drew fishes and other animals. The engravings from these drawings, published in Dampier's *Voyage to New Holland* in 1703, are the first known published pictures of Australian fishes. Bougainville noted a flying fish from a locality well eastward of the Great Barrier Reef in June, 1768.

Lieutenant James Cook, in the "Endeavour" 1770, noticed various fishes in eastern Australia, and the manuscripts and drawings then made by Banks, Solander and Parkinson are in the British Museum.

Marion du Fresne and François de Saint Allouarn noted some fishes from Tasmania and Western Australia respectively in 1772, the latter observing from Dirk Hartog's Bay, Western Australia, the poisonous toadfishes there. Captain Cook was poisoned by similar toadfishes in New Caledonia in 1774, but happily survived so that on his third voyage, William Anderson and William Ellis were able to describe Tasmanian fishes in a manuscript which is in the British Museum. The earliest description of an Australian flathead dates from this period.

The First Fleet naturalists made paintings, some still in existence, of Sydney fishes, and made known such interesting species as the Port Jackson Shark, the Five-fingers (now Morwong), Watts's Shark (Wobbegong) and Light horsemen (Snapper) and La Perouse's men caught nearly 2,000 "Light horsemen" in one day. The first published pictures of New South Welsh fish appeared in Phillip's *Voyage to Botany Bay*, 1789, soon followed by White's *Journal* and a host of other natural history publications.

The first printed list of Australian fishes was C. P. Thunberg's *Fauna Novae Hollandiae* (Upsala, 1822), but that only specified two sharks. Actually quite a few Australian species were known to science by the end of the 18th century.

In Collins' *Account of the English Colony in New South Wales* we can read of the first fisheries enactments for the new settlement. Any modern visitor to Botany Bay can still see the identical species of fishes mentioned in the journals of Cook, Banks, Phillip and the early French naturalists.

Linnaeus' *Systema Naturae*, the foundation for animal classification, was found insufficient to classify and name the new Australian animals, so Broussonet in 1780, and later Bonnaterre and Gmelin, Meyer, Forster and Latham, each added a few new species.

Shaw and Nodder from 1790 to 1810 published their *Naturalists' Miscellany* with over a thousand plates; in this work a number of fishes from the "Southern" or "Antarctic" seas, "New Holland" or the "Southern Ocean" are clearly recognizable as Queensland or Botany Bay species, evidently from Cook, White and other 18th century Australian collectors.

In 1791 Archibald Menzies described in manuscript new fishes from King George Sound, and George Tobin in 1792 painted and noted Tasmanian animals on Bligh's voyage.

At the beginning of the nineteenth century, Baudin's expedition with the ships "Geographe" and "Naturaliste" thoroughly explored much of our coastlines. The chief zoologist, René Maugé de Cely, was very ill and died in Tasmania in 1802, so the natural history was attended to by François Péron. He noticed that shells, fishes and other marine animals differed in such localities as, for example, Sydney, Tasmania, Kangaroo Island and Sharks Bay, and sought their limits of distribution. He collected and described many hundreds of specimens, many of which were painted by his friend and colleague Charles Alexandre Le Sueur. Their manuscripts and drawings have never been published in full and, having survived the ravages of war, are stored in Le Havre, France. So exquisite was Le Sueur's draughtsmanship that he would hand a visitor a lens so that he might examine the brush-strokes in his paintings in which every hair, feather or scale was truly delineated. He lived from 1778 to 1846. Other phenomenally gifted painters of Australian fishes were Ferdinand Bauer (1760-1826) whose work I have admired in the British Museum (fishes painted during the Flinders Expedition) and James Stuart (1802-1842), a quarantine official whose paintings are a valued possession of the Linnean Society of New South Wales.

Lacépède included in his *Histoire Naturelle des Poissons* from 1798 onwards such Australian fishes as were known to him and in 1804 he described specimens from Baudin's voyages. After the French Revolution, the popular demand for knowledge was so great, that encyclopaedias and dictionaries of natural history were issued in many volumes and, in these, from Bosc (1804) onwards, were incorporated numerous accounts of strange Australian fishes. Fréminville, Cuvier and others in France also published papers on them.

In England, Shaw's *General Zoology*, Turton, Perry's *Arcana* and Bullock's various synopses of the contents of his Museum all contained Australian fishes, as also did Donovan (1823).

In Australia, Thomas Skottowe had compiled by 1817 his manuscript and drawings illustrating the natural history of Newcastle, New South Wales.



Other batches of explorers and naturalists visited our shores: Quoy and Gaimard (1824), P. P. King, R. P. Lesson, Eydoux and Souleyet, until the 1820s culminated in the researches of Cuvier who had published his *Règne Animal* and was producing, with Valenciennes, their classic *Histoire Naturelle des Poissons* in 22 volumes with 650 coloured plates.

As the 1830s passed, the infant Australian Museum in Sydney was being directed by George Bennett.

The overland explorers made known our freshwater fishes. When G. W. Evans crossed the Blue Mountains in 1813, he named the Fish River in which he mentioned the presence of "trout". This is the first reference to the famous Murray Cod, so Evans blazed the trail which led to the discovery of the unique fish-fauna of the vast Murray River system, stretching from South Australia to Queensland. Oxley gave the first detailed account of the Murray Cod. T. L. Mitchell inserted excellent drawings of catfish, cod and silver perch in his journals; and Sturt, Cunningham and even Eyre mentioned the fish they gratefully ate.

In Germany, Müller and Henle were pioneering anatomical and taxonomic work on such primitive creatures as the hagfishes, sharks and rays. Swainson produced his volumes on fishes, amphibians and reptiles, and sought to justify his quinary scheme, one of the systems destined to fall by the wayside when Darwin (who was in Australia in 1836) later promulgated his more acceptable theories. The fishes of Darwin's voyage of the "Beagle" were described by Jenyns. Explorers and collectors of the 1840s were Stokes, Dring, and Emery; Neill, Miles, Gilbert, Gould and Leichhardt.

Perhaps the first native-born Australian ichthyologist was Dr. Edmund Charles Hobson (1814-1848), author of a paper on the Elephant Shark in the first number of the *Tasmanian Journal*, 1842.

Next John Richardson towers over the scene. He wrote *Icones Piscium*, describing the novelties from north-western Australia; he received fishes and drawings (even some from convicts) in Tasmania and compiled for the British Association for the Advancement of Science lists of the fishes of Australia and New Zealand; his account of the fishes in the *Voyage of the "Erebus and Terror"* (1844-1848) is still in constant use in Australian ichthyology.

The Dutch ichthyologist, Peter Bleeker, perhaps of all ichthyologists *facile princeps*, wrote 500 detailed papers apart from his massive *Atlas Ichthyologique*, but only about one per cent of them, unfortunately, were of Australian fishes.

Hombron and Jacquinot (1853) were about the last of the French naturalists who seemed to come to Australia in pairs (Peron and Lesueur, Quoy and Gaimard, Lesson and Garnot come to mind).

The 1860s was the age of Acclimatization Societies, so that many foreign fishes were introduced into our waters, often with dire results in due course. The *Zoological Record* had started its noble task which is still proceeding after a hundred years. Several scientific societies had sprung up in Australian capital cities. Rev. G. J. Bostock was collecting in Western Australia.

Another giant to follow Cuvier, Richardson and Bleeker was Albert Gunther of the British Museum who, in his many papers, but particularly in his eight volume *Catalogue of the Fishes in The British Museum*, made it possible for zoologists all over the world to name their fishes. The appearance of this work between 1859 and 1870 enabled a school of Australian zoologists to emerge. However, at the same time or soon afterwards, continental ichthyologists were describing fishes sent overseas. Peters in Berlin, Klunzinger in Stuttgart, Steindachner in Vienna and the workers in Paris were all contributing to Australian ichthyology independently so there was some confusion, which I tried to a small extent to disentangle when I visited all those places in 1937 and examined as many of their actual specimens as time allowed. Kaup and Kner also published descriptions of new species.

Johann Ludwig Gerard Krefft (1830-1880) was born in Brunswick, Germany, and came from America to Victoria in 1852 to try for gold. In 1857 he accompanied

Blandowski's now almost forgotten expedition\* to the Murray River as naturalist and draughtsman. In 1860 he joined the staff of the Australian Museum and was curator from 1861 to 1874 with residence in the Museum building. Krefft sent a collection of Australian fishes to the International Exhibition in 1862 and helped Gunther, who was writing his monumental *Catalogue*, by sending him Sydney specimens. Krefft himself wrote several papers on Australian freshwater fishes, but his most dramatic discovery was first revealed in a letter he sent on 17th January, 1870, to the *Sydney Morning Herald* announcing the finding of an "amphibious creature inhabiting northern streams and lagoons. . . . I have named this strange creature *Ceratodus Forsteri*"; this was the now world-famous Queensland Lungfish. Teeth of similar animals had been found fossil in various parts of the world, but there was the "living fossil", so much unlike anything that had been imagined that Louis Agassiz wrote to Krefft: "My fossil sharks are sharks no longer." Krefft died at Woolloomooloo, Sydney, just after his fiftieth birthday, on 19th February, 1880.

Another German, Schomburgk, collected in South Australia. Some new Australian fishes resulted from the German "Gazelle" Expedition of 1875 and the British H.M.S. "Alert" in 1881.

Hollard, Duméril, Guérin-Méneville, Thiollière, Guichenot pursued their individual lines in France and the Italian, Canestrini, described and figured an Australian Boarfish.

In the United States, Theodore Gill brought the light of his accuracy and industry to bear on taxonomic and bibliographical problems, and wrote masterly papers setting the classification of fishes in order and correcting the errors or slipshod work of earlier authors. Cope named some presumably Australian fishes in Philadelphia.

Count Castelnau forsook insects to study fishes when he became French Consul at Melbourne, and McCoy produced his excellent *Prodromus* with many illustrations of Victorian fishes unexcelled to this day.

Allport was interested in what we should now call bionomics of Tasmanian fishes.

Then Sir William Macleay came on the scene: first with a paper as joint author with Dr. Haynes Gibbes Alleyne on the fishes of the "Chevert" expedition to New Guinea; later, as an independent author, he contributed papers and his *Descriptive Catalogue of Australian Fishes* to the pages of our Linnean Society's Proceedings, the *Catalogue* being a definitive work based not only on literature but on his extensive private collections.

But ichthyology never stands still. In the 1880s the results of the great "Challenger" expedition were being made known by Gunther. In Australia, De Vis, Haacke, Zietz, R. M. Johnston, Morton and Ramsay were building up on the foundations laid by Gunther and Macleay.

Interest in the fishing industry was aroused in 1880 by the Royal Commission on the Fisheries of New South Wales which for the first time assembled reliable information from scattered sources. The Rev. J. Tenison-Woods wrote his *Fish and Fisheries of New South Wales*, published in 1882, in readiness for the London International Fisheries Exhibition which called attention to fishes as a world economic proposition. Ramsay was in charge of the Australian exhibit which included a giant sunfish from Sydney named in honour of Ramsay by the Italian zoologist, Giglioli.

In Paris, Thomillot and Sauvage in the 1880s were producing descriptions of new Australian species.

James Douglas Ogilby began in the 1890s his fine series of careful descriptions of Australian fishes: a bibliography of his work appeared in *Records of the Australian Museum*, 15 (2), 1926: 149, with portrait.

Lucas named some Victorian rock-pool fishes encountered during his studies of algae. Regan, of the British Museum, began a series of papers on classification and osteology, and France was represented by Vaillant who described new species. In

\* William Blandowski wrote an account of fishes of the Murray River which has not been published because it was held to contain unflattering references to Melbourne notabilities of the time.



passing, we are struck by the world-wide flavour, through the decades of "Australian" ichthyology. Our fishes engage the interest of people in faraway lands as much as of local students. A Russian publication dealing with South Australian fishes now unexpectedly appears, in which Herzenstein (1896) describes new species collected by Schneider.

The trawling activities of the "Thetis" were the subject of *Australian Museum Memoir* 4, 1899-1914. Edgar Ravenswood Waite, in his introduction thereto, gave a valuable history of marine investigations in New South Wales.\*

The twentieth century was gently ushered in by the publication in 1900 of Anderson's *Guide to Fishing in Tasmania*. David G. Stead became Naturalist to the Fisheries Department in Sydney and recorded many field notes from all over New South Wales. His voluminous writings included *Fishes of Australia* (1906), *The Edible Fishes of New South Wales* (1908), and the posthumously published *Sharks and Rays of Australian Seas* (1963). An account of his work is given in the *Proceedings of the Royal Zoological Society of New South Wales* for 1956-57 (1958: 8, with portrait). He was manager of the State trawling industry which, while not an outstanding business success, at least produced very many interesting marine specimens. The work of the Fisheries Inspectors in various States should not be forgotten; they have always been helpful to science.

In Queensland, James Tosh studied the eggs and young as well as the adult fishes of Moreton Bay. He later became Professor of Biology at St. Andrews University and was killed in Mesopotamia. Thomas Welsby, also in southern Queensland, left us a good deal of fish lore in his writings, notably his book *Schnappering*.

Garman in the United States compiled his great memoirs on Sharks and Rays. Jordan and Seale issued their *Fishes of Samoa* and H. W. Fowler was producing numerous taxonomic papers. All these American works were of immense value to Australian ichthyologists.

Parker and Haswell used Australasian sharks and fishes as anatomical examples in their now classic *Text-Book of Zoology*.

The Federal Government commissioned the trawler "Endeavour" to explore the continental shelf under the direction of the Norwegian, Harald Dannevig, from 1909 until the tragic loss of the vessel in 1914. Great collections of fishes were made and some groups were reported on by McCulloch, Norman and Raff, but there is still a good deal of material to be identified.

Another Scandinavian was Knut Dahl who explored north-western Australia and the Northern Territory; his fishes were recorded by Rendahl in 1922.

Praise must be given to Edgar R. Waite whose descriptions of our fishes were not only accurate but illustrated by good wash drawings from his own brush. A bibliography of his papers has been furnished by Hale (1928, *Rec. S. Aust. Mus.*, 3 (4): 345, with portrait).

It was Waite who trained A. R. McCulloch and the pupil improved on the master. McCulloch read and card-indexed everything that had been written about Australian fishes, he discovered new species which he described and illustrated so accurately and beautifully that there is little that can be added to his work.

Theodore Roughley, subject of a memorial notice by this Society (*Proc. Linn. Soc. N.S. WALES*, 86, 1962: 265 and portrait), when Economic Zoologist at the Technological Museum, Sydney, published in 1916 his *Fish and Fisheries of New South Wales*, beautifully illustrated in colour as well as black and white. He wrote and lectured extensively about the excellent edible qualities of Australian fish.

Interstate, in the 1910s, W. B. Alexander studied Western Australian species, and Bancroft experimented with the rearing of Queensland Lungfish. Albert Gale championed Australian freshwater fishes as aquarium subjects and recorded the breeding habits of some of the smaller eastern Australian ones.

\* Complementary to this is Iredale's list of dredgings from New South Wales to Tasmania in *Rec. Austr. Mus.*, 14, 1925: 243, and map.

Abroad, Weber and de Beaufort in Holland continued their *Fishes of the Indo-Australian Archipelago*; Duncker in Germany brought order into the classification of pipefishes (Syngnathidae) and Cockerell studied scales.

In 1916 appeared the first part of Bashford Dean's monumental *Bibliography of Fishes* which was completed with part three in 1923 and has laid the world of ichthyology under obligation since. An even more colossal undertaking of this period was Sherborn's *Index Animalium*, recording all the scientific names in the animal kingdom proposed between 1758 and 1850. With Dean, Sherborn and the *Zoological Record*, a good deal of ichthyological work was indexed, but there remained a "no man's land" between 1850 and the early 1860s and a good deal of detailed analysis of literature to be done before even a list of Australian fishes could be prepared. McCulloch had his thousands of card-index slips and a name-list in manuscript, so the latter was elaborated upon and published in 1929-30 as a Check-list of the fishes recorded from Australia in *Austr. Mus. Mem.* 5.

The 1920s had been marked by steady work in the post-war years: Norman monographed the flatfishes though he was fated to produce only volume 1. Rendahl wrote on remote north-western Australian freshwater fishes obtained by Dahl; Nichols and Raven on those of the then almost as remote streams of Queensland. Hale was studying pipefishes with Waite; Longman was interested in Queensland fishes, Glauert in those of Western Australia, while Lord and Scott wrote a book about Tasmanian vertebrates. Johannes Schmidt arrived from Denmark to study freshwater eels (*Anguilla*) and to arrange for the visit of the "Dana" expedition, which made notable discoveries in the Tasman Sea.

In 1927 Taronga Zoological Park opened its Aquarium to public view and studies there over the years have yielded information on growth, longevity and variation amongst fish, and thrown light on the reproduction of sharks.

Professor C. Yonge was in charge of the Great Barrier Reef expedition to the Low Isles, Queensland. A naval surgeon, Lieutenant Commander W. E. J. Paradise, made large collections of fishes in the Northern Territory. McCulloch had died, but one may perhaps be pardoned for mentioning that his work was continued and built upon at the Australian Museum, whose collections were expanding, so that many new records of fishes and taxonomic adjustments had to be made over the years.

A milestone in our knowledge was the publication of the "Map of Fisheries" prepared by the Development and Migration Commission for the information of the members of the Australian Fisheries Conference, 1929. Later the work of the Commission was taken over by the Fisheries Division of the Council for Scientific and Industrial Research in its laboratory at the old Fisheries Department hatchery at Cronulla, New South Wales.

In the 1930s sharks were being sought commercially by Norman Caldwell and others and it was noticed that large ones could be quickly diminished in numbers by meshing a particular region. Because of the danger of shark attacks, a Shark Menace Advisory Committee was set up under the chairmanship of Judge (now Sir) Adrian Curlewis.

Big-game fishing, practised for some time by a few enthusiasts, received an impetus from the visit of Zane Grey who wrote books on his angling experiences as well as the novels for which he was famous; fishes of unwieldy size were becoming accessible for study and inevitably it was found that their classification needed revision.

Fraser-Brunner revised the Plectognathi, Chabanaud the soles, Regan and Trewavas the deep-sea fishes from the "Dana", Bertin the leptocephalus larvae of eels and the type-specimens of fishes in the Paris Museum, Tortonese catalogued the fishes of the "Magenta" expedition of the 1860s, Miss Erna Mohr reviewed the "Dana" Centriscidae, and Carl Hubbs listed blind fishes.

Dakin and Colefax investigated at first hand the plankton of the Tasman Sea and the flatheads (Platycephalidae) caught by the trawlers. Dr. H. Leighton Kesteven proposed some new interpretations of the bones of fishes, based on the skulls of local



species. In New Zealand, Phillipps' papers had an Australian bearing. Mack in Victoria, E. O. G. Scott in Tasmania, T. C. Marshall in Queensland, Moorhouse in South Australia were investigating fishes, Walford in the Blue Mountains found that *Galaxias coxii* bred in fresh water; it was generally held before this that *Galaxias* was obliged to descend to the sea to breed. Evans investigated the food of fishes in Tasmania.

Material was collected on the Great Barrier Reef by Iredale, McNeill, and Melbourne Ward.

Japanese vessels visited our tropical waters in the 1930s, but, apart from some exquisite coloured postcards illustrating *Nemipterus* and other genera, I have not traced any ichthyological results from their surveys.

The original scientists associated with the C.S.I.R. Marine Biological Laboratory, Cronulla, New South Wales, were Dr. Harold Thompson, Chief; and Research Officers Stanley Fowler, Serventy, Blackburn, Tubb and others, later joined by Geoffrey Kesteven. The "Warreen" was the first of a number of research vessels employed in field work.

World War II delayed research to some extent, but opened other avenues. Fisheries activities were organized to supply fish for consumption in the Commonwealth, sharks were studied not only as enemies of man, but as sources of vitamin-rich oil; anti-submarine patrols by aeroplanes were sometimes used for fish-spotting as well; poisonous and harmful fishes were studied from the serviceman's point of view. A case of fatal stabbing by a stingray was reported by Wright-Smith.

In 1947, chiefs of interstate Fisheries Departments conferred in Sydney and reached general agreement on the vernacular names (hitherto very confused) to be used for commercial fishes in all States of the Commonwealth.

In the 1940s, Dunbavin Butcher studied the food of freshwater fishes of Victoria; Ian Munro worked on eggs and larvae as well as revising the breams and Spanish mackerels, Geoffrey Kesteven examined the mullet in great detail, Elizabeth Pope demonstrated the anatomy of the Port Jackson Shark, that interesting "living fossil" whose hatching and growth were recorded by Jacups; and Shipway made field observations on freshwater fishes in Queensland and Western Australia. Cleland studied the biology of whiting (*Sillago*) and Stokell, from New Zealand, threw light on our *Galaxias*. Tom Iredale's bibliographical researches may be mentioned here; although primarily dealing with ornithological and conchological subjects, his work is of great value in other branches of zoology and his inspiration to workers in many different branches of natural history should never be overlooked. In 1940, a book on Sharks and Rays was published by the Royal Zoological Society of New South Wales; it was intended as the first of a series of volumes on Australian fishes, but financial stringency prevented further publications.

Overseas, Chabanaud continued on the soles, Ege revised *Chauliodus* (his work was later (1952) elaborated by Haffner) and J. T. Nichols wrote the results of the Archbold Expedition to Cape York.

A joint American and Australian expedition to the Northern Territory spent some time there in 1948, but the results of the fish collecting have not yet come to hand, though a few new records therefrom have strayed into American reviews of various families of fishes.

By the 1950s ichthyologists were becoming more specialized and generally were revising smaller groups of genera and species. In a museum, one has to work on a huge shark one day, a small blenny the next, or sort a collection from some tropic reefs which may contain a hundred species of almost as many genera.

C.S.I.R. had been established as C.S.I.R.O. in 1949 and now produced a handbook *Australian Fisheries* reviewing that subject; this is now a very rare book. In that organization, Blackburn worked on anchovies, pilchards, Tasmanian whitebait, barracouta and fisheries generally. J. P. Robins was making observations at sea on the occurrence of tuna in relation to surface-temperatures. The main taxonomic work on tunas was continued by Serventy. Cowper found a new gadoid from the rich fish-fauna being opened up by line-fishing, in greater depths than before, to the south-east

of Tasmania. Munro studied various families and the eggs and larvae of flying fishes, and in 1956 commenced his Handbook of Australian Fishes in *Fisheries Newsletter*, but this enterprise unfortunately lapsed (at least temporarily) when about one thousand species had been dealt with. J. M. Thompson and G. Kesteven worked on mullets and Kurth on flatfishes. The death of W. S. Fairbridge deprived science of a promising young man who had studied flathead, snapper, "salmon" (*Arripis*) and the effects of over-fishing on the trawling industry.

Dr. (now Sir Victor) Coppleson reviewed cases of shark attacks since 1919 and formulated theories as to times when attacks might be expected, dependent on locality and water-temperatures. Colefax's Presidential Address to the Linnean Society of New South Wales discussed scale structure in fishes.

George Coates, a naturalist and angler who painted accurate representations of tropical fishes, brought out the second edition of his *Fishing on the Barrier Reef*.

E. O. G. Scott continued his Tasmanian ichthyological studies and T. D. Scott commenced some contributions on Western and South Australian fishes.

A fatal case of poisoning through eating toadfish in Tasmania revived interest in ciguatera or ichthyotoxismus (C. Duncan, 1951; Whitley, 1953). Dr. Flecker of Cairns studied Stonefishes.

The Australian Museum produced a list of type-specimens of all the recent fishes in its collections. In 1957, *Australian Science Abstracts* ceased publication; for some twenty-five years these had afforded a detailed, annotated list of zoological papers as they appeared, and so are of value to the future historian of that period. The new *Australian Encyclopaedia* in 1958 contained articles and illustrations of fishes and fisheries.

The Danish "Galathea" expedition, directed by Anton Bruun, worked in Australian waters, but full results of the important catches made have not yet been published. Japanese research ships were again busy and fishermen from Japan exploited the tunas, swordfishes and other species off Australian shores. The lesser fishing activities in our waters by Indonesians were discussed by Serventy (1952).

A voice from the past was heard as H. W. Fowler (1953) catalogued for publication the Australian fishes from the United States Exploring Expedition of 1838 to 1842.

Overseas workers in the 1950s continued: Fraser-Brunner turned his attention to Hammerhead Sharks, mackerels and Chandidae. Koumans's studies on gobies and gudgeons were incorporated in his volume on the order Gobioidae in Weber and Beaufort's *Fishes of the Indo-Australian Archipelago*, 10 (1953), mentioning many Australian types.

Other overseas workers of the 1950s who touched Australian ichthyology were: J. C. Briggs (clingfishes), Kähnsbauer (pipefishes), Randall (surgeon-fishes), Thines (blindfishes), Arnold (Carapidae) and the brilliant Denys Tucker (Trichiuridae); Barton described a new *Siganus* and Meinken figured aquarium fishes. Bertelsen's classic papers on deep-sea (bathypelagic) angler fishes mentioned *inter alia* a number of New South Wales forms newly discovered in Australian waters by the Danish "Dana" Expedition of 1929.

Game-fishermen were becoming interested for purposes of record in the exact identity of their catches, so Lamonte (1955) reviewed the Marlins, a very difficult group, whose final classification has still not been decided on.

The appearance in 1953 of the first of the volumes on fishes from the American "Operations Crossroads", by Schultz and others, was in its way another milestone in the study of our coral reef fishes, for whilst these *Bulletins* of the U.S. National Museum describe and figure fishes primarily from the Marshall and Marianas Islands, numerous Australian species are keyed or their data tabulated, sometimes from fresh sources of information.

The 1960s are still too close for contemplation. This is a period of rapid travel when ichthyologists can come from all over the world to collect or compare specimens.



The use of underwater breathing devices has opened up new vistas in field work and the study of fish behaviour. Modern photographic techniques show us a new, more natural world of fishes, often in colour,\* and one is tempted to regret that the technical advantages of today had not been available years ago so that greater progress in this fascinating subject could have been made.

The impression one receives (if anything as clear as an impression emerges) from this review of work on Australian ichthyology is that slowly, perhaps painfully, a great deal of worth-while information has been gathered together, often by devoted, poorly paid souls working in many countries and often under conditions of stress.

We have progressed from the observations of early explorers and natural history collectors, who were astonished by the novelty and strangeness of some of the fishes they found, to the more or less routine description of species by overseas and local zoologists. No definite limits can be set to the periods in which such work was carried out, indeed some is still continuing. The purely systematic approach prevails and ichthyological literature is still cluttered with synonyms and scateralia rather than résumés of information concerning particular fishes. Catalogues and check-lists slowly appeared. Fresh fishing techniques resulted in new captures, especially in the depths of the sea. Anatomical, physiological and skeletal work on Australian fishes is almost an untouched field. As in all branches of science it is important to know where to find the data which are already published. In an attempt to help in this regard, a subject-index, following the lines of that in Dean's *Bibliography of Fishes*, but adapted for modern Australian requirements, is appended to this address.

Australian ichthyological literature is marked by a series of fallen monuments, of many a part 1, or volume 1—never to be followed by subsequent numbers.

Not counting Macleay's *Descriptive Catalogue*, which was complete for its time, valiant efforts by Ogilby, Waite, McCulloch, Munro and others to prepare accounts of all our fishes have lapsed. Nonetheless good accounts of fishes of South Australia (Waite, 1923; T. D. Scott, 1962) and New South Wales (McCulloch, 1922) have appeared, and some success has been achieved by authors attacking piecemeal certain aspects of the whole.

A new trend is to compile a dossier or synopsis on one particular fish: J. M. Thompson (1963) on mullet and J. P. Robins (1962) on tuna are examples.

But work in the future will probably be planned by international committees and at the colloquium or symposium rather than by the individual worker.

There are probably well over 40,000 different species of fishes in the fresh and salt waters of this globe, referable to more than 600 families. At the end of 1883, Sir William Macleay noted the total number of Australian fishes as amounting to 1,291 species. More than eighty years later it is now nearer 2,450. Only 7.5% of the species of Australian fishes inhabit freshwater. Many Australian freshwater fishes are as worthy of conservation as koalas and gumtrees, kangaroos and waratahs, and should be preserved because of their unique interest.

Probably when all the deep-sea fishes are known and when we have identified and catalogued the planktonic larvae, we may find we have up to three or four thousand different kinds of Australian fishes. Even in New South Wales, where some seven hundred different fishes are well classified, it has been found that larvae, apparently plentiful in the plankton off-shore, belong to genera and families so far unrecorded from Australia.

Well may we agree with the poet Spenser:

"Oh! what an endless work has he in hand  
Who'd count the sea's abundant progeny."

We have advanced a little in our knowledge since the eminent authors of the *British Cyclopaedia* whose quotation began this address, in which such "facts and relations" as human beings have collected concerning Australian fishes have been but

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\* A beautiful example is Gillett and McNeill's the *Great Barrier Reef*.

sketchily and imperfectly indicated by their spokesman who has been talking long enough; it is now time for him to join the fishes in being remarkable for their silence.

Submitted herewith as appendices\* are: (A) An alphabetical subject-index on topics associated with Australian fishes; some ninety main headings lead the student to references on these. (B) A name-list of some 2,450 species; and (C) a bibliography.

#### Acknowledgements.

The author is particularly grateful to his employers over the last forty years or so: The Australian Museum and, for a period, the Council for Scientific and Industrial Research (now C.S.I.R.O.), for facilities in the laboratory and the field. The cheerful co-operation of his colleagues also made his work easier. Most of the books and papers consulted in the preparation of this address are in the Australian Museum or the author's own library, but others have been perused in the Mitchell Library and Public Library, Sydney, the Public Library, Melbourne, and in many overseas and interstate reading rooms. To the librarians of these institutions, the writer gives his warmest thanks. For typing and the arrangement of this address he is appreciative of the efforts of his assistants at the Australian Museum (Misses L. Carter, K. Pope and H. Ashton) and Mrs. G. Frewer.

#### APPENDIX A: SUBJECT INDEX.

As the result of about forty years spent answering questions about fishes as ichthyologist to the Australian Museum, I found it useful to have a Subject Index, on cards, giving notes and references to literature on many different topics associated with fishes. Thousands of cards were accumulated, from which a selection of principal references cogent to Australian ichthyology has been extracted, as below, in the hope that this will be of use to future students.

The main source-books are, from the earliest times to at least the year 1920, Bashford Dean's "A Bibliography of Fishes", the third and final volume of which was published in 1923, and the "Zoological Record" down to recent years. The alphabetical arrangement of Bashford Dean's "Subject Index (Morphological and General Section)" is followed hereunder.

#### ABORIGINES.

[The association between aborigines and fishes is a very broad subject, at present being studied by F. D. McCarthy. I have scattered references to fishing implements: fish traps, nets, spears, hooks and the things used in their manufacture, sinkers, kielries, and other devices. The aborigines not only ate fish but used their oil, bones, etc.

Remains of fishes (often groper, snapper and even porcupine fishes) are found in middens and rock shelters. The fish-bones were occasionally used as ornaments.

The aborigines depicted fishes in rock engravings, wood carvings, and bark paintings, many of which are reproduced in artistic and anthropological monographs. Vocabularies of native names for fishes appear in books of voyages and travels.

Old illustrations of aboriginal fishing methods are scattered in historical literature or in unpublished photographs.

Then there are countless legends about fishes, rites to increase fish, charms, dances and songs. Aborigines have been attacked by sharks and injured by other types of fishes. All this material has yet to be collated.]

#### ACCLIMATIZATION.

*Fish-farming*: Lake, 1962, *The Fisherman* (State Fisheries N.S.W.), Summer 1962: 1-7, figs. Kesteven, 1960, *Austr. J. Sci.* 23 (4): 125. Thomson, J. M., 1955, *Fisheries Newsletter* 14 (5): 17, illustr.

*Introduced Fishes*: Whitley, 1958, *Austr. Encycl.* Whitley, *Austr. Mus. Mag.* 10 (6), July 1951: 198. Whitley, *Austr. Mus. Mag.* 10 (7), Sept. 1951: 234. Whitley, *Austr. Mus. Mag.* 11 (11), Sept. 1955: 360. Shipway, 1953, *W.A. Nat.* 3 (8): 173. Stephenson, 1953, *ic. Notes* 2: 37. Seager, 1941, *N.S.W. Rod Fish. Soc. Gazette* 11 (5) and 11 (6): 1 & 5.

#### AERIAL OBSERVATIONS.

Anon., 1943, *Fisheries Newsletter* 2 (3): 13 and later issues. Ralph, 1942, *Vict. Nat.* 59: 131. Serventy, V., 1952, *Walkabout*, Aug. 1952: 16. Whitley, 1946, *Proc. Roy. Zool. Soc. N.S.W.* 1945/6, p. 17, figs. Julius *a.o.*, 1937, *Eleventh Ann. Rept. C.S.I.R.*: 63 and later C.S.I.R. publications. Fowler, S., 1942, *Pacific Fisherman* 40 (10): 35, figs, and 42 (4), 1944: 39.

\* A substantial anonymous donation made it possible to print these appendices.—Ed.



## AESTIVATION.

Whitley, 1959, *Monogr. Biol.* 8: 138. Taylor, R., 1855, *Te Ika a Maui*: 652.

## AGE.

Dakin, 1939, *Rec. Austr. Mus.* 20: 282 (flathead). Fairbridge, 1951, *Austr. J. Mar. Freshw. Res.* 2 (2): 156 (flathead). Hinton, 1962, *Zoologica* 47 (2): 105 (longevity of fishes). Jacups, 1943, *Proc. Roy. Zool. Soc. N.S. Wales* 1942/3, p. 11 (Port Jackson Shark). Parrott, 1932, *N.Z. J. Sci. Tech.* 14: 101 (trout in Victoria). Smith & Thomson, 1957, *Fisher. Dept. W. Austr. Monthly Service Bull.* 6 (11): 148. Walford (1941), *Austr. Mus. Mag.* 7: 236 (*Galaxias*). Whitley, 1940, *Fish. Austr.* 1: 52 (sharks). Anon., 1959, Eleventh Ann. Rept. C.S.I.R.O., 1958-59: 73 (school shark, 23½ years old).

## AIR-BLADDER.

Kesteven, H., 1931, *Rec. Austr. Mus.* 18 (4): 167. Parker & Haswell, *Text-book of Zoology*: 229, fig. 905. Phillipps, 1928, *N.Z. J. Sci. Tech.* 10 (4): 220, fig.

## ANATOMY.

Parker & Haswell, 1962, *Text-book of Zoology* ed. 7, 2: passim, figs.

## BACTERIA and fishes.

Ferguson-Wood, 1939, C.S.I.R. Pamph. 93. Ferguson-Wood, 1953, *Austr. J. Sci.*, Dec. 1953: 87, fig. 1.

BEHAVIOUR. (*See also* Commensalism, Locomotion, Migration, Reproduction, etc.)

Goadby (1959), *Sharks*, passim, photos. (sharks). Graham (1953), *Treasury of N. Zeal. Fishes*, passim. Kesteven, G., 1960, F.A.O. Indo Pacif. Fisher. Symposium on fish behaviour. Kondo, 1955, *Copeia* 1955 (3): 236 (bronsonian knot of eel).

There is also much general information in various books about the Great Barrier Reef.

## BLIND FISHES.

[There may be blind fishes yet unnamed in Australian caves—certainly there are reports of them and specimens are required. One proved to be a pale *Salmo gairdneri*, however. These should not, of course, be confused with fishes whose eyes are affected by bore water after aestivation. See also aestivation and deep-sea fishes.]

Hubbs, 1938, *Carneg. Inst. Wash. Publ.* 491: 261, figs. Whitley, 1945, *Austr. Zool.* 11: 35, fig. 15 (*Milyeringa*). Whitley, 1959, *Monogr. Biol.* 8: 147. Thines, 1955, *Les Poissons Aveugles. Ann. Soc. Roy. Belg.* 86 (1): 1-128, figs 1-36 (includes Australian ones). See his later papers too. Wolf, 1934 onwards, *Animalium Cavernarum Catalogus*. Whitley, 1935, *Rec. Austr. Mus.* 19 (4): 244. Gianferrari, 1932, *Atti Soc. Ital. Milano* 71: 217. Norman, 1926, *Ann. Mag. Nat. Hist.* (9) 18: 324.

## BLOOD.

Buchanan, 1916, *Proc. Roy. Soc. Vic.* (n.s.) 28 (2): 188, Pl. 18. Dakin, 1931, *Austr. Zool.* 7: 22. Dakin & Edmonds, 1931, *Austr. J. Exper. Biol. Med. Sci.* 8: 169. Molineux, 1885, *Trans. R. Soc. S. Austr.* 7: 82 (exuding of blood by sharks).

CAVE FISHES (*see* Blind fishes).

## CENSUS.

*Depletion and population studies*: Blackburn, 1953, *Austr. J. Sci.* 15 (5): 151. Kesteven, G., 1947, *Nature*, Jan. 4: 10.

*Numbers of species*: McCulloch, 1914, *Biol. Res. Endeavour* 2 (3): 77. Whitley, 1927, *Austr. Mus. Mag.* 3 (3): 108. Whitley, 1941, *Proc. Roy. Zool. Soc. N.S.W.* 1940/1: 9.

[The present number of Australian species is about 2,450. The Australian Museum houses very approximately 50,000 specimens of fishes from all parts of the world.]

*Correlations in rates of diversification*: Small, 1952, *Proc. Roy. Soc. Edinburgh* (Biol.) 64 (3): 277.

## CLASSIFICATION.

Berg, 1940, *Trav. Inst. Zool. Acad. Sci. U.R.S.S.* 5 (2): 346-517, and later editions. See also W. Gosline's 1952 "Unofficial Addendum" to Berg (ronco'd). Jordan, 1923, *Classif. Fishes*. Whitley, 1940, *Fish. Austr.* 1: 67-69. Whitley, 1952, *Austr. Mus. Mag.* 10 (12): 402.

## COLORATION.

*Albinism*: Anon., 1961, *N. Qld. Nat.* 29, June, 1961: 4.

*Ambicolorate flatfishes*: Norman, 1934, *Monogr. Flatfishes* 1: 22, figs. Benham, 1921, *Ann. Rept. Otago Mus.* 1920: 4. Archey, 1924, *N.Z. Journ.* 6: 342. Cott, 1940, *Adaptive Coloration in Animals*.

*General*: Whitley, 1958, *Proc. Roy. Zool. Soc. N.S.W.* 1956-7: 36, fig. 7 (conspic. colours of juvenile fishes). Prince, 1949, *Visual Development* 1: 217. Griffiths, 1936, *Proc. Linn. Soc. N.S. Wales* 61: 319, pl. 16 (colour-changes in batoids).

*Markings on fishes simulating objects*: Whitley, 1941, *Austr. Mus. Mag.* 7 (10): 339, figs. [Melanistic *Morwong fuscus* is in the Australian Museum.]

*Xanthism*: Haysom, 1960, Qld. Fisher. Inform. Bull. 17: 2. Whitley, 1952, *Proc. Roy. Zool. Soc. N.S. Wales* 1950/1: 29. Anon., 1956, *Anglers' Digest & Shooters' Monthly Oct.* 1956: 121 (yellow eel, Victoria). Scott, 1942, *Proc. Roy. Soc. Tas.* 1941: 47 (eel). Kershaw, 1904, *Vict. Nat.* 20: 140 (eel).

[*Xanthic Girella tricuspidata* and *Segutilum sydneyanum* are in the Australian Museum.]

#### COMMENSALISM.

*Anemone fishes*: Eibl-Eibesfeldt, 1960, *Zeitschr. Tierpsych.* 17 (1): 1-10, figs. 1-5. Gudger, 1947, *J. Roy. Asiat. Soc. Bengal* 12 (2), 1946: 53 illustr.

*Carangids and medusae*: Masters, 1879, *Proc. LINN. SOC. N.S. WALES* 3: 413. Macleay, 1884, *Proc. LINN. SOC. N.S. WALES* 7: 533. Whitley, 1931, *Rec. Austr. Mus.* 18: 110. Semon, 1899, *In Austr. Bush*: 485.

*Cleaning symbiosis*: Limbaugh, 1961, *Scient. American*, Aug. 1961: 4, 27 & 42-49, illustr. Eibl-Eibesfeldt, 1959, *Zeitschr. Tierpsych.* 16: 19-25, illustr. Grobe, 1960, *Natur u. Volk* 90 (5): 152, illustr. Randall, 1958, *Pac. Sci.* 12 (4): 327-347, illustr.

*Fishes, sea-urchins and corals*: Slack-Smith, 1962, *Mem. Nat. Mus. Melbourne* 25: 9. Bayer & Harry-Rofen, 1957, *Ann. Rept. Smithsonian Inst.* 1956: 495, illustr. Abel, 1960, *Natur u. Volk* 90: 33, fig. 3. Eibl-Eibesfeldt, 1961, *Zeitschr. Tierpsych.* 18: 56-59. Whitley, 1959, *Proc. Roy. Zool. Soc. N.S. Wales* 1957-8: 16-17. Lachner, 1955, *Copeia* 1955 (1): 53.

*Clingfishes and echinoderms*: Bayer & Rofen, 1957, *Ann. Rept. Smithsonian Inst.* 1956: pl. 8, fig. 2. Pfaff, 1942, *Vidensk. Medd. fra Dansk. nat. Foren.* 105: 418.

*Portuguese man-o'-war (Physalia) and fishes*: Beaglehole, 1962, *Endeavour Journ.* Jos. Banks 1: 174.

*Pilot-fish and sharks*: Whitley, 1951, *Austr. Mus. Mag.* 10 (5): 151, illustr.

*Hydroids on fishes*: Hand, 1961, *Trans. Roy. Soc. N. Zeal. Zool.* 1 (5), 91, fig. Gudger, 1928, *Ann. Mag. Nat. Hist.* (10) 1: 17-48, illustr. Zirpolo, 1939, *Ann. Mus. Zool. R. Univ. Napoli* (n.s.) 7 (8): 1, figs.

*Association with tunicates*: Rathjen, 1960, *Copeia* 1960 (4): 354. Giglioli, 1912, *Ann. Agric. (Roma) Stud. Talass.* 29. Giglioli, 1887, *Nature* 34: 313. Firth, 1933, *Bull. Boston Soc. Nat. Hist.* 69: 3.

*Carapus and echinoderms*: Strasburg, 1961, *Copeia* 1961 (4): 479, fig. Schultz a.o., 1960, *U.S. Nat. Mus. Bull.* 202: 394.

*Fishes and molluscs, eggs in shells, etc.*: Munro, 1955, *Austr. J. Mar. Freshw. Res.* 6 (1): 30, figs 1-2.

*Barnacles on fishes*: Bouxin & Legendre, 1952, *Bull. Soc. Zool. France* 77: 119. Nilsson-Cantell, 1939, *Discov. Rept.* 18: 236, and fig.

*Worms and lancelets*: Whitley, 1927, *Rec. Austr. Mus.* 16: 3.

#### CONSERVATION.

Allen, 1962, *N. Zeal. Ecol. Soc. Proc.* 9: 39-43, fig. 1. Whitley, 1955, *Austr. Mus. Mag.* 11: 359-364. Myers, 1953, *Proc. 7th Pacif. Sci. Congr. Auckland* 4, *Zool.*: 691. Symposium on dams and migratory fishes, 1940, *Stanford Ichth. Bull.* 1 (6).

[As early as 1824, Lesson predicted diminution of numbers of aborigines and indigenous Australian animals—Whittell, 1954, *Lit. Aust. Birds*: 81.]

#### DEEP-SEA FISHES.

Bruun, 1953, *Geogr. Mag (London)* 26 (5): 247, and reports of "Galathea" Exped. Bruun, 1953, *Galathea Jordomsejling*: 306, pp., illustr. Grey, 1956, *Fieldiana, Zool.* 36 (2): 73-337. Hargraves, 1923, *Austr. Mus. Mag.* 1 (7): 213. Nybelin, 1957, *Rept. Swedish Deep-Sea Exped.* 2, *Zool.* 20: 250-345, pls 1-7. Roughley & Whitley, 1930, *Austr. Mus. Mag.* 4: 1. Wolff, 1961, *Nature*, April 15: 283 (deepest recorded fishes).

[Live animals were trawled from 400 faths. as early as the "Erebus" and "Terror" Voyage in the Tasman Sea, well east of Australia.—L. Huxley, 1918, *Life and Lett.* Hooker 1: 122.]

#### DENTITION.

Colefax, 1952, *Proc. LINN. SOC. N.S. WALES* 77: pp. viii et seq., figs 1-28. Gudger, 1937, *Bull. Amer. Mus. Nat. Hist.* 73 (2): 249-280, figs (sharks). Kerr, 1960, *Proc. Zool. Soc. London* 133 (3): 401, illustr. Moy-Thomas, 1934, *Q. J. Micros. Soc.* 76: 481, illustr. Nicholls, 1909, *Teeth of Australian Animals (Austr. J. Dentistry)*. Whitley, 1930, *Austr. Mus. Mag.* 4 (3): 92, illustr. Whitley, 1940, *Fish. Austr.* 1: passim. Anon., 1928, *Otago Univ. Mus. Ann. Rept.* 1927: 4.

#### DIGESTION-RATE in sharks.

Coppleson, 1951, *Med. J. Austr.* 1951 (1): 633-635. Coppleson, 1958, *Shark Attack*: 20 et seq. and 107. Whitley, 1951, *W. Austr. Nat.* 2 (8): 190. Beauvalet, 1933, *Comptes Rendus Acad. Sci. Paris* 196 (19): 1437-9. Cook, 1941, *Nature*, March 29: 388, fig.

#### DISEASES in man caused by fishes.

Cleland, 1925, *Med. J. Austr.*, Oct. 4, 1924. Wheeler, 1931, *Calif. Fish. Bull.* 36: 110 (sardines). Brazier, 1880, *Proc. LINN. SOC. N.S. WALES* 5: 629 (*Filaria* from herrings).



## DISTRIBUTION.

*Freshwater*: Gill, 1875, *Ann. Mag. Nat. Hist.* (4) 15: 251, and *Nat. Acad. Sci. Wash.* 6: 108. Iredale and Whitley, 1938, *South Austr. Nat.* 18: 64-68, map. Myers, 1953, *Proc. 7th Pac. Sci. Congr.* 1949, iv, *Zool.*: 33-48. Whitley, 1959, *Monogr. Biol.* 3, passim. Whitley, 1960, *Freshwater Fishes* (Brisbane: Jacaranda Press).

*Marine*: Bartholomew, 1911, *Physical Atlas*, vol. 5, zoogeography. Edean, 1957, *Aust. J. Mar. Freshw. Res.* 8 (3): 233, maps, etc. Edean, 1961, *Univ. Qld. Pap. Dept. Zool.* 1 (13): 297 (Dampierian-Banksian). Hubbs, 1952, *Proc. 7th Pacif. Sci. Congr.* (N. Zeal.) 3: 324-329 (bipolarity). Iredale & Hull, 1929, *Austr. Zool.* 5 (4): 311. Iredale, 1938, *Aust. J. Sci.* 1 (3): 102-103. Kloss, 1929, *Bull. Raffles Mus.* 2: 1, maps. Kott, 1952, *Aust. J. Mar. Freshw. Res.* 3 (3): 205-333 (Baudinian region). Tortonese, 1938, *Boll. Mus. Torino* 46: 279-311. Whitley, 1932, *Aust. Nat.* 8 (8): 166 and map. Whitley, 1937, *Aust. Zool.* 8 (4): 199, 268, and Iredale, *ibid.*: 287, 289 and maps.

## ECOLOGY.

Beadle & Costin, 1952, *PROC. LINN. SOC. N.S.W.* 77: 61. Bennett & Pope, 1953, *Austr. J. Mar. Freshw. Res.* 4 (1): 105-159, pls 1-6, figs 1-5. Guiler, 1950, *Proc. Roy. Soc. Tas.* 1949: 135-201, illustr.; *ibid.* 1952-3: 86, passim & 87-93. Hedley, 1915, *Proc. Roy. Soc. N.S.W.* 49: 1-77, pls 1-7 and 38 text-figures. Knox, 1960, *Proc. Roy. Soc. Lond.* (B) 949, *Biol. Sci.* 152: 577, illustr. Tenison-Woods, 1880, *PROC. LINN. SOC. N.S. WALES* 5: 106-131.

## ELECTRIC FISHES.

Berrill, 1953, *Natural History* (N.Y.), Dec. 1953: 450, illustr. Keynes, 1956, *Endeavour* 15 (60): 215, figs 1-7. Whitley, 1940, *Fish. Austr.* 1: 160-166.

## ELECTRICITY used in Fishing.

Burnet, 1952, *Aust. J. Mar. Freshw. Res.* 3 (2): 111-125, illustr. Burnet, 1961, *N.Z. J. Sci.* 4: 151, figs. Meyer-Waarden, 1958, *Electrical Fishing* (F.A.O.)—reviewed in *Fisheries Newsletter*, Oct. 1958: 11. Whitley, 1940, *Fish. Austr.* 1: 26.

## ENEMIES OF FISHES.

*Mammals*: Anon., 1960, *Fisheries Newsletter*, Dec. 1960: 15 (seals). Barrett, 1941, *Austr. J. Sci.* 4 (2): 59-60 (seals). Coonan, 1950, *Fisheries Newsletter* 9 (11): 7, fig. (whale). Goadby, 1959, *Sharks*: 93, 97 (cetacea). Harney, 1951, *Walkabout*, July 1: 37 (dingo). Hull, 1927, *Aust. Zool.* 4 (6): 333 (seals). Le Souef, 1925, *Austr. Zool.* 4 (2): 112 (seals). Ride, 1957, *Fisher. Dept. W. Austr. Monthly Service Bull.* 6 (11): 156 (sperm whale). Troughton, 1941, *Furred Anim. Austr.*: 43 (native cat); 247 (seals); 264 (water rat) & 399 (bats). Whitley, 1940, *Fish. Austr.* 1: 26, 59 & 199 (seals).

*Birds (other than cormorants) eating fishes*: Barrett, 1941, *Nature*, 22 Nov.: 630. Cleland, 1937, *Emu* 36: 297. Gudger, 1927, *Nat. Hist.* (New York), Sept.-Oct., 1927, 27 (5): 485, figs. Harvey, 1943, *Mankind* 3 (4): 108, map. Lea & Gray, 1936, *Emu* 35: 342, nos. 97, 117 & 188. Le Souef, 1926, *Emu* 26: 79. Ramsay, 1883, *Cat. Exhib. N.S.W. Court*: 48. Rau, 1938, *S. Austr. Ornith.*, April 1: 174. Salter, 1954, *Vict. Nat.* 71 (6): 99. Selby, 1952, *Emu* 52: 146, pl. xv. Serventy, D. L., 1939, *Emu* 38: 363 and 510. Serventy, D. L., & Whittell, 1948, *Birds W. Austr.*, passim. Serventy, V. N., 1957, *W.A. Nat.* 5 (8): 233. Sutton, 1933, *S. Austr. Ornith.* 12, pl. opp. p. 19. Whitley, 1940, *Fish. Austr.* 1: 62 & 127. Whittell, 1954, *Lit. Austr. Birds*: 451.

*Cormorants and fishes.*

[There is much discussion in newspapers, angling and other journals as to whether cormorants are damaging to fisheries. Examination of their stomach-contents by scientists discloses that they are not as destructive as fishermen think. Shags occasionally eat valuable fishes, but most often their stomachs contain small fish of no importance. See *Ann. Repts. Fisheries N.S.W.* 1906 onwards.]

Anon., 1909, *Fisheries Inquiry Board. Rept. & Minutes of Evidence*, Victoria. Anon., 1962, *The Fisherman*, Autumn 1962: 8, figs. Barrett, 1941, *Austr. J. Sci.* 4: 59. Bryant, 1958, *Emu* 58: 156. Dickison, 1951, *Emu* 51: 224. Everitt, 1938, *Emu Index to vols. 1-37*: 16. Kesteven, 1941, *Austr. J. Sci.*, Aug. 1941: 13, and Oct. 1941: 59. Lea & Grey, 1935, *Emu*, 35: 275. McKeown, 1944, *Emu* 43, 259. McNally, 1957, *Vic. Fish & Game Dept. Fauna Contrib.* 6: 1-36, plates and figures. McNally, 1958, *Wildlife Circular* 8, *Fisher. Game Victoria*: 12 pp., graphs. Mack, 1941, *Mem. Nat. Mus. Melb.* 12: 95, figs 1-15. Mattingley, 1931, *Emu* 31: 148. Morris, 1942, *Vict. Nat.* 59: 23. Report Roy. Comm. *Vict. Fisheries* 1919: 13-14, 26 & 47. Serventy, 1938, *Emu* 38: 293 and 362, diagrams. Serventy, 1958, *Austr. Encycl.* 3: 63 and 4: 87. Serventy & Whittell, 1948, *Birds W. Austr.*: iii. Stead, 1954, *Aust. Wild Life* 2 (4): 40, figs. White, 1917, *S.A. Ornith.* July 1917: 75. Whittell, 1954, *Lit. Austr. Birds* (refs. to Buckland, Cole, Forster, Gregory, Morris, Prendergast, Ross, Rudall *a.o.*).

*Snakes*: Whitley, 1939, *Austr. Mus. Mag.* 6 (12): 432 and 7, 1940: 89. Worrell, 1954, *Outdoors & Fishing*, Oct. 1954: 30, fig.

*Eels as enemies of trout*: Cairns, 1942, *N. Zeal. J. Sci. Tech.* (B) 23: 132B.

*Spiders*: McKeown, 1935, *Austr. Mus. Mag.* 5 (12): 431, figs. McKeown, 1936, *Spider Wonders of Australia*, figs. McKeown, 1943, *Proc. Roy. Zool. Soc. N.S.W.* 1942-3: 26, figs. McKeown, 1952, *Austr. Spiders*: 166. Wadey, 1935, *S. Austr. Nat.* 16 (3): 32, pl. i.

*Insects*: Anon., 1887, Town & Country Journal (Sydney), 29 Oct.: 916, fig. Campbell, 1927, *Austr. Mus. Mag.* 3 (3): 93. McKeown, 1933, *Austr. Mus. Mag.* 5: 14, figs. Roughley, 1933, Cult of the Goldfish, chap. ix. Tillyard, 1917, Biol. Dragonflies: 329.

*Echinoderms*: Serventy, 1958, *W.A. Nat.* 6 (5): 128 (seastars). Frey, 1951, *Copeia*, 1951: 175 (sea-cucumbers poisoning fish).

*Molluscs*: Lane, 1957, Kingdom of the Octopus: 36-38, 47, 76 & 148, illustr. Norris, 1931, *Austr. Nat.* 8 (5): 93 (snails). Wright, 1963, *Austr. Newsletter Malac. Soc. Austr.* 11 (40): 8 (cone-shell).

#### FISHERIES.

Annual Reports of various State Fisheries Departments and the Sea Fisheries Board of Tasmania. C.S.I.R.O. Annual Reports. Commonwealth of Australia Official Year Books, 1927 onwards. Official Year-Book of New South Wales, 1906 onwards. Fisheries Newsletter 1, 1941, to date. Development and Migration Commission, 1st Ann. Rept., 1927. Rivett, 1939, *Nature* Aug. 19: 312, 2 figs. Roughley, 1935, *Proc. Roy. Zool. Soc. N.S.W.* 1934-5: 9-20. Roughley, 1939, *Proc. Linn. Soc. N.S.W.* 64: vi. Griffith Taylor, 1947, *Australia*: 367.

[Some of the first Australian fisheries were mostly concerned with whaling and sealing. Commerce in edible fish commenced about 1827 (Shaw, 1952, *J. Roy. Austr. Histor. Soc.* 35: 314; Hartwell, 1956, *J. Roy. Austr. Histor. Soc.* 42 (2): 57). Early fisheries conditions were noted in Collins's Account of the English Colony of N.S.W. The works of Tenison-Woods, Stead, G. Kesteven, H. Thompson, Dakin, Dannevig, Colefax, R. M. Johnston, Saville-Kent, the Australian Encyclopaedia, and the Reports of Royal Commissions (1880, 1883 & 1896) should be consulted. The manuscript *Returns of the Colony of New South Wales* are important.

Much of the early literature is of archival interest only. See also Haydn's 1910 Dictionary of Dates: 530. A list of the more important papers issued before 1927 was prepared by me but published in roneo'd form under the name of W. T. Wells (1927, Rept. Austr. Fisher. Conf., Govt. Printer, Melbourne, Appendix 7: 1-4).

Waite (1899) gave a history of trawling and the F.I.V. "Endeavour" conducted extensive trawling experiments before her loss in 1914. The annual catch, by species, has been analysed by Kearns (1953, Fisheries Newsletter 12 (3): 9 and in each ensuing year.)

#### FISHES AND FLOWERS.

[Natives used to time the appearance of certain fishes with the seasons when flowers bloomed.]

Tuioiti, 1955, *Tuatara* 5 (3): 82. Whitley, 1934, *Aust. Mus. Mag.* 5 (7): 223. Whitley, 1959, *Aust. Mus. Mag.* 13 (2): 56.

#### FISHES OUT OF WATER.

E. Scott, 1934, *Proc. Roy. Soc. Tas.* 1933: 36, 41-44.

#### FISHING METHODS.

"Australian Fisheries" (Sydney: Halstead Press), 1950: 1-104, pls i-vi. "Fisheries Newsletter", passim. Blackburn & Fairbridge, 1946, *Journ. C.S.I.R.* 19 (4): 404, figs (Danish seine trials). Domeny de Rienzi, 1855, *Oceania* 3, pl. 255 (aboriginal fishing, Jervis Bay). Gudger, 1950, *Aust. Mus. Mag.* 10: 61, fig. (fishing with the hand). Caldwell, 1938, Titans of the Barrier Reef: 56 & 120, pl. (shark-nets). McCarthy, 1940, *Mankind* 2 (9): 303, 305 (nets and traps). Roughley, 1916, *Fish. Aust. Technol. (Tech. Educ. series no. 21)*. Serventy, 1952, *Austr. Geographer* 6 (1): 13-16, map and bibliography (Indonesian fishing activities in Australian seas).

#### FOOD AND FEEDING HABITS.

Baker, 1956, *Vict. Nat.* 73: 87 (swallowing stones). Butcher, 1945, *Vict. Fisher. Pamphlet* 2: 1-48 & suppl. pp. 1-4. Butcher, 1946, *Freshw. Fish. Victoria*. Colefax, 1938, *Proc. Linn. Soc. N.S. WALES* 63: 56 (flathead) and 58 (*Apogonops*). Cotton, 1942, *Trans. Roy. Soc. S. Austr.* 66 (1): 83 (cephalopoda). Dakin, 1931, *Austr. Zool.* 7: 26, fig. 3 (food-chain of flathead). Evans, 1939, *Parl. Tasm. Salmon & Freshw. Fisher. Comm. Rept.* 46: 3-37. Graham, 1939, *Trans. Roy. Soc. N. Zeal.* 68: 421. Jenkins, 1952, *W.A. Nat.* 3 (6): 139. La Monte, 1955, *Bull. Amer. Mus. Nat. Hist.* 107 (3): 329 (marlins). McKeown, 1934-55, *Rec. Aust. Mus.* 19: 141, 184, 397; 21: 38 and 23 (5): 273. Phillipps, 1926, *Trans. N. Zeal. Inst.* 56: 525-529. Rayment, 1952, *Aust. Mus. Mag.* 10 (12): 408. Stephenson & McNeill, 1955, *Rec. Aust. Mus.* 23 (5): 240 (stomatopods). G. Thomson, 1931, *Rept. Fisher. N. Zeal.* 1931: 30-32. J. Thomson, 1957, *W.A. Fisher. Dept. Bull.* 7 (food of W. Aust. estuarine fishes). Tillyard, 1934, *Proc. Roy. Soc. Tas.* 1933: 1 (trout). Whitley, 1940, *Fish. Austr.* 1: passim.

#### FOREIGN BODIES.

Gudger, 1922, *Nat. Hist. (N. York)* 22: 452, figs. Whitley, 1935, *Austr. Mus. Mag.* 5 (10): 341 (ringed fishes). Whitley, 1941, *Austr. Mus. Mag.* 7 (10): 341 (ringed fishes). Whitley, 1955, *Austr. Mus. Mag.* 11 (9): 294 (marlin bill).

#### FRESHWATER FISHES.

Bodenheimer, 1959, *Monogr. Biol.* 8: 136, figs 1-3. Butcher, 1946, *Freshw. Fish. Vict. & their food*. Gill, 1884, *Smithson. Rept.* 1882: 44. Iredale & Whitley, 1933, *S.A. Nat.* 18: 64-68 (map of fluvifaunulae). Lake, 1959, *Fisher. N.S.W. Res. Bull.* 5 (freshw. fish. N.S. Wales).



Mees, 1962, *J. Roy. Soc. W. Austr.* 45: 24. Myers, 1951, *Stanford Ichth. Bull.* 4 (1): 11. Whitley, 1947, *W.A. Nat.* 1: 49, map (fluvifaunulae). Whitley, 1955, *Austr. Mus. Mag.* 11: 359-364, 10 figs. Whitley, 1956, *Australasian Aqua Life* 1, onwards (serial articles). Whitley, 1956, *Proc. Roy. Zool. Soc. N.S. Wales* 1954-5: 39 (list of Aust. species). Whitley, 1960, *Freshw. Fish.* (Brisbane: Jacaranda Press).

#### GROWTH. (See also Age and Size.)

Garrick, 1960, *Trans. Roy. Soc. N. Zeal.* 88, passim (sharks). Jacups, 1943, *Proc. Roy. Zool. Soc. N.S. Wales* 1942-3: 11 (Port Jackson Shark). Rudel, 1960, *Finchat*, Dec. 1960: 19 & 21 (*Neoceratodus*). Shapiro, 1938, *Amer. Mus. Novit.* 995: 1-20 (marlins). Thomson & Anderton, 1921, *Bull. N. Zeal. Board Sci. Art* 2: 77 (parrot fish).

#### HERMAPHRODITES.

Cleland, 1919, *Abstr. Proc. Linn. Soc. N.S. Wales* p. ii (mullet). Stead, 1936, *Austr. Nat.* 9 (7): 158 (snapper & bream).

#### HYBRID (trout).

Phillipps, 1922, *N. Zeal. J. Sci. Tech.* 5 (2): 98. Stokell, 1949, *Rec. Canterb. Mus.* 5 (4): 209.

#### ICONOGRAPHY.

##### *Old illustrations.*

[30,000-year-old drawing of fishes in Aurignacian Cave reproduced in *Illustr.* London News, May 25, 1935, pl. 923, fig. Early Australian drawings listed by Whitley, 1938, *Austr. Mus. Mag.* 6: 301. The first illustrations of Australian fishes were made by Dampier's artists.]

*Figuring fishes*: Olsen & Morrow, 1959, *Bull. Bingham Oc. Coll.* 17: 147, illustr.

*Plaster casts*: Mackay, 1957, *Austr. Mus. Mag.* 12 (5): 153, figs.

##### *Beautiful illustrations.*

[Bauer, James Stuart, McCulloch and others have made beautiful paintings of Australian fishes.]

Nissen, 1951, *Schöne Fischbücher*, passim. Roughley, 1916, *Fish. Austr. Tech.*: 238-254, pls & figs (fishes in applied art).

##### *Photography.*

[The first photograph of a living fish was taken at London Aquavivarium by Count Montigon (Brightwell, 1936, *The Zoo You Knew?*, p. 80). Mobsby's methods of photographing live fishes were discussed by Hamlyn-Harris, 1929, *Proc. Roy. Soc. Qld.* 41 (3), pls i et seq. Modern methods are given by Randall, 1961, *Copeia* 1961 (2): 241. Early cinematography was practised by McCulloch (1924, *Austr. Mus. Mag.* 2 (3): 103, frontispiece & figs). Colour transparencies are now popular in the 1960s.]

#### INTEGUMENT.

[A swimming-belt made partly of a fish's skin was amongst the relics of Capt. Cook (papers re Cook Relics ii, *Cat. Colon. Ind. Exhib.* 1886: 6).

For notes on development and variation of sharks' skins, see Garrick's papers.

Budker and associates have discussed pit-organs and "dents jumelées".]

*Ecdysis*: Hirotsaki, 1957, *J. Fac. Sci. Hokkaido Univ.* (vi) Zool. 13, Jubilee of Uchida: 178-9.

*Artificial pearls from fishes' scales*: *Illustr.* Sydney News, April 17, 1871, p. 55.

*Scales*: Butcher, 1948, *Victor. Fisher. Pamph.* 4: 1, illustr. (scale-reading). Cockerell, various papers, esp. 1915, *Mem. Qld. Mus.* 2 & 3. Colefax, 1952, *Proc. Linn. Soc. N.S.W.* 77, pp. viii et seq., figs 1-28. Dakin, 1931, *Austr. Zool.* 7: 30, pl. 2. Kerr, 1955, *Proc. Zool. Soc. Lond.* 125 (2): 335, illustr. (*Neoceratodus*). Kesteven & Proctor, 1941, *J.C.S.I.R.* 14 (1): 57, pls 3 & 4 (apparatus for scale-reading). Parrott, 1934, *Trans. Proc. N. Zeal. Inst.* 63: 497, pl. 52 and figs (trout). E. Scott, 1953, *Proc. Roy. Soc. Tas.* 1952: 165, fig. 4 (*Brachionichthys*). Stokell, 1955, *Freshw. Fish. N. Zeal.* 81, pls (scale-reading). Tubb & Proctor, 1941, *J.C.S.I.R.* 14 (3), pls i-ii (apparatus).

#### ISINGLASS.

Woods, 1888, *Proc. Linn. Soc. N.S.W.* (2) 3: 194-202.

#### LARVAE. (See Planktonic Ova and Larvae.)

#### LATERAL LINE.

E. S. Hills, 1941, *Rec. Austr. Mus.* 21: 48, figs.

#### LOCOMOTION.

Magnan, 1930, *Ann. Sci. Nat. Zool.* (10) 13 (3): 404, pls & figs. Rauther, 1933, *Kl. Ord. Tierreichs* (Bronn) 6 (1) 2, echte Fische, 4 Lief: 494, figs. Salier, 1929, *J. Proc. Roy. Austr. Hist. Soc.* 15 (3): 153.

*Speed*: Gudger, 1940, *Mem. Roy. Asiat. Soc. Bengal* 12 (2): 285. Whitley, 1958, *Austr. Mus. Handbook* 1957: 77.

## LOGOTYPES.

Whitley, 1935, *Austr. Zool.* 8 (2) : 136-139. Whitley, 1936, *Austr. Zool.* 8 (3) : 189-192.  
Whitley, 1939, *Austr. Zool.* 9 (3) : 222-226.

## MIGRATIONS.

[The movements of sharks, game and commercial fishes around Australia are incompletely known, but tagging operations, especially over the last 20 years or so, have yielded some interesting results. Reports of Fisheries Departments, notably the *W. Austr. Monthly Service Bulletin* of the 1950s, record data, as well as *Fisheries Newsletter*, of post-World War II years.

The first records of marked fishes recaptured after migration were probably mediterranean tunnies (see "A Marked Tuna", Whitley, 1950, *Austr. Mus. Mag.* 10 (3) : 75), though Aristotle and Rondelet mention marking experiments by cutting dolphins' tails (Cole, 1944, *Hist. Compar. Anat.* : 71). Sir Francis Bacon was perhaps the first to tag freshwater fishes by tying a riband to them, according to Isaac Walton, 1653. In New South Wales, marking experiments on freshwater fishes were performed by the Fisheries Dept. in 1909 and later years, but reports on fish movements by Inspectors go back to 1905 in Annual Reports of the State Fisheries Dept. Snapper were tagged in Port Phillip by 1914 by the Victorian Piscatorial Council; mullet at Port Hacking, N.S.W., in 1938 and Brisbane in 1935. The present writer was the first (1942) to tag sharks in Australia. In other seas, albacore have been noted as migrating 4,724 miles in 324 days (Kreider, 1961, *Field & Stream* 66 (6) : 48). Latterly, tattooing of fish has been practised (Dunn & Coker, 1951, *Copeia* 1951 (1) : 28, fig.).

Fishes may still attempt ancient passages now blocked by land-masses (Smith, 1956, *Ichth. Bull. Rhodes Univ.* 2 : 29); for example, kingfish (*Regificola*) seem to try to enter Sydney Harbour where now blocked by the isthmus of Manly Beach. Hall (1936, *Vict. Nat.* 53 : 42) refers to Faunal Corridors.]

Butcher & Ling, 1962, *Vict. Nat.* 78 (9) : 256-264, figs 1-4 (tagging bream). Kesteven, 1946, *Fisheries Newsletter* 5 (4) : 10, figs. Lissmann, 1954, *The Advancement of Science* 11 (41) : 69 (direction-finding). Malcolm, 1954, *Fisher. Dept. W. Austr. Monthly Ser. Bull.* 3 (1) : 4. Moorhouse, 1953, *Fisher. Newsletter* 12 (7) : 17 (Ruff). Olsen, 1953, *Austr. J. Mar. freshw. Res.* 4 : 95, pls i-v. Olsen, 1959, *J. Mar. Freshw. Res.* 10 (2) : 169. Robins, 1960, *Fisher. Newsletter* 19 (7) : 11, maps (tuna tagging). Teesey, 1936, *N.S.W. Rodfishers' Gazette* 4 (9) : 12 (trout, Barrington Tops). J. M. Thomson, 1955, *Fisher. Newsletter* 14 (2) : 17 (leather-jacket recoveries). J. M. Thomson, 1960, *Austr. Mus. Mag.* 13 (5) : 158-162, 4 figs. J. M. Thomson, 1962, C.S.I.R.O. Div. Fisher. Oc. Tech. Pap. 13 : 1-39, figs 1-7 (tagging of marine animals in Australia). Whitley, 1934, *Daily Telegraph newspaper*, May 25, leading article (Fish on Tour).

## MIMICRY.

[That some fishes imitate their surroundings has long been realized, but it is only in recent years that proof has been forthcoming that certain kinds mimic other fishes. Some fishes, especially when young, bear remarkable resemblance to algae, floating leaves, jellyfishes, and may adopt special postures to heighten the resemblance. There are fantastic implications in the mimicry of the Cleaner Fish (*Labroides*) by a Blenny (*Aspidontus*) involving mimesis, the imitation of behaviour patterns as well as coloration. Snake Eels mimic sea snakes or even other snake eels. The Leafy Sea Dragon, *Phycodurus*, is a classic case of a syngnathid fish resembling kelp.]

Breder, 1946, *Bull. Bingh. Oc. Coll.* 10 (2) : 1. Dunn, 1897, 64th Ann. Rept. Cornwall Polytechn. Soc. : 56-59. Randall, 1958, *Pacif. Sci.* 12 (4) : 330 et ibid. 1960, 14 (3) : 269-270. J. & H. Randall, 1960, *Bull. Mar. Sci. Gulf & Carib.* 10 : 444-480 (with bibliography). Smith, 1958, *Ann. Mag. Nat. Hist.* (13) 1 : 62 (*Canthigaster* & *Paraluteres*). Whitley, 1935, *Rec. S. Austr. Mus.* 5 (3) : 348 (mimicry of coral fishes). Whitley, 1940, *Fish. Austr.* 1 : 248 & 250 (worm imitating lancelet). Wickler, 1961, *Natur u. Volk* 91 (11) : 417. Wickler, 1963, *Zeit. Tierpsychol.* 20 (6) : 657-679, figs 1-10.

## MORTALITY.

*Marine*: Anon., 1953, *Fisher. Dept. W. Austr. Monthly Serv. Bull.* 2 (6) : pl. opp. p. 148. Arden, 1950, Walkabout, March 1, 1950 : 39 & figs. Dunstan, 1955, *Fisheries Newsletter* 14 (5) : 15. Dunstan, 1959, C.S.I.R.O. Div. Fisher. Tech. Pap. 5 : 9. Kesteven, 1962, *Fisher. Newsletter* 21 (2) : 17, photo. on cover. Middleton, 1955, *Fisher. Dept. W. Austr. Monthly Serv. Bull.* 4 (5) : 69 and 4 (8) : 133-142, figs. E. Scott, 1960, *Proc. Roy. Soc. Tas.* 94 : 99 (Tasmanian leatherjackets). J. M. Thomson, 1963, *Austr. J. Sci.* 25 (9) : 414-415, fig. (fish in fly ash suspension). Young, 1938, *Qld. Nat.* 10 (4) : 78.

*Freshwater*: *Agric. Gazette N.S. Wales* 1947, 58 (12) : 637, fig. (effects of D.D.T.). Hamlyn-Harris, 1930, *Mem. Qld. Mus.* 10 : 51, pl. ii (goldfish, Queensland). Johnston, 1917, *Proc. Roy. Soc. Qld.* 29 (11) : 125. Johnston & Bancroft, 1921, *Proc. Roy. Soc. Qld.* 33 (10) : 174-210. Johnston & Hitchcock, 1923, *Trans. Roy. Soc. S. Austr.* 47 : 157-161 (bacterial disease, Queensland). Lamond, 1961, *N. Qld. Register*, Dec. 9, 1961 : 30 (1916 mortality, C. Australia). Sandars, 1948, *Qld. Nat.* 13 : 89-90.



## MOSQUITO-DESTROYING FISHES.

Cooling, 1913, *Ann. Rept. Comm. Publ. Health Qld.* 1913: 61. Cooling, 1923, 1927, *Health (Melbourne)*, April 1923, 94-98 and 5: 12, 1927. Hamlyn-Harris, 1929, *Proc. Roy. Soc. Qld.* 41 (3): 23-38, pls 1-8. Laird, 1956, *Roy. Soc. N. Zeal. Bull.* 6: 97. Phillipps, 1930, *N. Zeal. J. Sci. Tech.* 12 (1): 19-20. Stead, 1907, *Agric. Gazette N.S.W. Miscel. Publ.* 1111: 1-3. *et ibid.* 18, 1907: 762.

## MUSIC.

Ackland, 1929, "Animals in Orchestration", *Nat. Hist. (N.Y.)* 29: 519.

## MYOLOGY.

Lightoller, 1940, *PROC. LINN. SOC. N.S. WALES* 65: 355.

## NERVOUS SYSTEM.

Johnston, 1938, *Trans. Proc. Roy. Soc. N. Zeal.* 68: 47, pl. 8. (*Physiculus*). Pope, 1938, *PROC. LINN. SOC. N.S. WALES* 63: 412, 12 figs. (*Heterodontus*.)

## OIL.

Blackburn, 1941, *C.S.I.R. Bull.* 138: 44. Cunningham *a.o.*, 1944, *N. Zeal. J. Sci. Tech.* 26 (B) 1: 21-27, fig. Cunningham *a.o.*, 1949, *N. Zeal. J. Sci. Tech.*, Jan. 1949: 214, figs. Denz & Shorland, 1934, *N. Zeal. J. Sci. Tech.* 15 (5): 327. Julius *a.o.*, 1937, *Eleventh Ann. Rept. C.S.I.R.*: 64, and later reports. Shorland, 1937, *Nature* 140: 223-224. Shorland, 1950, *N.Z. J. Sci. Tech.* (B) 32 (2): 30. Stead, 1906, *Fish. Austr.*: 251. Whitley, 1940, *Fish. Austr.* 1: 55-57, etc. (see index).

## OSMOSIS.

DAKIN, 1935, *PROC. LINN. SOC. N.S. WALES* 60: vii-xxxii.

## OTOLITHS.

Dakin, 1939, *Rec. Aust. Mus.* 20: 282-292, pls. 27-30 & fig. 1. Frost, 1924, *Trans. Roy. Soc. N. Zeal.* 55: 605-616 *et ibid.* 1928, 59: 91 *et ibid.* 63: 133, pls. Longman, 1931, *Proc. Roy. Soc. Qld.* 42, p. ix. Stinton, 1953, *Trans. Roy. Soc. S. Austr.* 76: 66-69, figs 1-12. Stinton, 1957, *Trans. Roy. Soc. N. Zeal.* 84 (3): 513. Stinton, 1958, *Proc. Roy. Soc. Vict.* 70: 81, pl. (for other papers—see *Zool. Rec.* 1953 onwards). Weiler, 1950, *Senckenbergiana* 31: 209, illustr. (with bibliography).

## OVA. (See Planktonic Ova and Larvae.)

## PATHOLOGY. (See also Mortality and Teratology.)

Hamlyn-Harris and Duhig, 1930, *Mem. Qld. Mus.* 10: 51-54, pl. 2. Mellen, 1928, *Zoopathologica* 2: 1 (treatment of fish diseases). Roughley, 1932, *Bull. Tech. Mus. Syd.* 18: 22.

[For references to Salmon disease (*Saprolegnia*) see Greig-Smith's papers in *PROC. LINN. SOC. N.S.W.*]

## PELVIS.

Gregory, 1935, *Amer. Nat.* 69: 193, figs. Tyler, 1962, *Proc. Acad. Nat. Sci. Philad.* 114: 207-250, figs 1-55.

## PHILATELY.

[The Australian Museum has the Dovey Collection of zoological stamps, over 200 of which have fish motifs. The first mention of an aquarium on a postage stamp was on the New Caledonia March 1959 issue.]

Renouf, n.d., *The Stamp Zoo* 2: 45, figs (Stanphil Stamp Books, no. 5). Way & Standen, 1952, *Zoology in Postage Stamps* (London: Harvey & Blythe).

## PINEAL ORGAN.

Holmgren, 1958, *Breviora* (Mus. Comp. Zool., Harvard) 100: 1, figs. 1-2 (tuna).

## PISCICULTURE. (See also Acclimatization.)

*Fish pond farming*: Anderson, 1918, *Aust. Zool.* 1 (6): 157, figs 1-2. Anon., 1933, *Nature* Feb. 4: 177 (historical). Anon., 1959, *Fisheries Circ.* 4, Fish & Game Dept., Melbourne: 1-4. Anon., 1959a, *Pond Culture of Fish in Queensland*: 1-12, figs 1-13. Butcher & Thompson, 1947, *Vict. Fisher. Pamph.* 3. Hora, 1948, *J. Roy. Asiatic Soc. Bengal* 14: 8 (prehistoric fish-culture). Nichols, 1953, *J. Soil Conserv. Service N.S.W.* 9 (2): 53, figs. 1-6, with bibliography. O'Connor, 1887, 1898, *Proc. Roy. Soc. Qld.* 3, 4 & 12 and *Qld. Agric. J.*, 1 & 2. Weatherley, 1958, *C.S.I.R.O. Divn. Fisher. Tech. Pap.* 4: 1-24, figs 1-12. Dannevig, 1903, *Rept. Fisher. N.S.W.* 1902, 2: 5 (introduced flatfishes).

## PITUITARY.

Atz, 1962, *Anim. Kingdom (New York)* 65 (3): 83, figs. Atz & Pickford, 1959, *Endeavour* 18 (71): 125, illustr. Griffiths, 1938, *PROC. LINN. SOC. N.S. WALES* 63: 82, pl. v & figs. Pickford & Atz, 1957, *Physiol. Pituit. Gland Fishes (N.Y. Zool. Soc.)*.

## PLANKTONIC OVA &amp; LARVAE. (See also Reproduction.)

*Eggs of elasmobranchs:* Gudger, 1940, Bashford Dean Memor. Vol. 7: 531 (various sharks: largest eggs in the animal kingdom are of Isuridae). Hale, 1935, *Rec. S. Austr. Mus.* 5 (3): 367, fig. 1. Kershaw, 1958, *Vict. Nat.* 75 (7): 115, fig. Phillips, 1946, *Domin. Mus. Rec. Zool.* 1 (2): 17, fig. 6. Smith, 1942, Bashford Dean Memor. Vol. 8: 705, illustr. Whitley, 1938, *Austr. Mus. Mag.* 6 (11): 372, figs. Whitley, 1940, *Fish. Austr.* 1: 37 et seq., figs. Whitley, 1943, *Proc. Linn. Soc. N.S. WALES* 58: 128. Whitley, 1944, *Austr. Mus. Mag.* 8 (8): 260, figs.

*Eggs of Fishes:* Graham, 1953, *Treasury of N. Zeal. Fishes*, passim., figs. Kesteven & Serventy, *Austr. J. Sci.* 3 (6): 171 (bream). Whitley, 1947, *Austr. Mus. Mag.* 9 (4): 115, fig. (raft of fish eggs). Gunther, 1889, "Challenger" Rept. Zool. 31. Haswell, 1890, Rept. 2nd meet. Austr. Assn. Adv. Sci.: 482 (shore eel). Tosh, 1903, *Parl. Rept. Mar. Dept. Qld.* 1902-3. Thomson, 1906, *Trans. N.Z. Inst.* 38: 557, illustr. Anderton, 1907, *Trans. N.Z. Inst.* 39: 477, illustr. (also later vols.). Stead, 1907, *Eggs and Breeding Habits of Fishes*. Dannevig, 1909, *Fisheries Inquiry Board Rept. & Minutes—Victoria*: 106, et seq. Regan, 1916, *Brit. Antarctic "Terra Nova" Exped.* 1910, *Nat. Hist. Rept. Zool.* 1, 4. Thomson & Anderton, 1921, *Bull. N.Z. Board Sci. Art.* 2: 82, et seq., figs. Dakin & Colefax, 1934, *Rec. Austr. Mus.* 19: 139 (pilchard). See also *Proc. Linn. Soc. N.S.W.* 58, 1933: 212. Colefax, 1938, *Proc. Linn. Soc. N.S. WALES* 63: 60. Kesteven, 1938, *State Fisheries N.S.W. Research Bull.* 1 (Murray Cod). Graham, 1939, *Trans. Roy. Soc. N. Zeal.* 69: 361 et seq., figs. Dakin & Colefax, 1940, *Univ. Syd. Zool. Monogr.* 1: 201 et seq., figs. Rapson, 1940, *N.Z. Mar. Dept. Fish. Bull.* 7: 7 et seq., figs. Schadwinkel, 1963, *Zool. Anzeiger* 171: 456-459, figs 1-8. Whitley, 1938, *Rec. Austr. Mus.* 20: 195, fig. 1 (eel). Blackburn, 1941, *C.S.I.R. Bull.* 138. Whitley, 1941, *Austr. Zool.* 10: 1 et seq., figs. Kesteven, 1941, *Austr. J. Sci.* 3 (6): 171. Munro, 1942, *Proc. Roy. Soc. Qld.* 54: 33, pls 2-4 (*Scomberomorus*). Dakin, 1933, *J.C.S.I.R.* 6: 211-212 (pilchard). Whitley, 1945, *Aust. Mus. Mag.* 8: 426, fig. (*Regalecus*).

[The first reference to Australian fish eggs was that of de Prado, 1606, see Stevens, 1930, *New Light Discov. Austr.*: 167.]

*Delayed metamorphosis:* Berry, 1958, *Copeia* 1958 (2): 124. Tucker, 1959, *Nature* Oct. 24: 1281.

*Juvenile stages defined:* Hubbs, 1958, *Copeia* 1958 (4): 282. Whitley, 1940, *Rec. Aust. Mus.* 20 (5): 326.

*Post-larval Australian fishes:* Munro, 1945, *Mem. Qld. Mus.* 12 (3): 136-153, figs 1-8. Whitley & Colefax, 1938, *Proc. Linn. Soc. N.S. WALES* 63: 293, 395.

## PLURAL.

[When speaking of fish as a commercial product, as, for example, in the markets or fish-shops, one uses the plural fish. When speaking of them as animals or individuals or as different species, the plural is fishes.]

Anon., 1932, *Copeia* 1932 (4): 185. Emmison, 1954, *The Times* (London), Jan. 11. Innes, 1936, *Aquarium* 5 (7): 148. Mellen, 1925, *N. York Zool. Soc. Bull.* 28 (3): 57.

## POISONOUS FISHES.

*Fishes poisonous as food:* Brock, 1956, *Copeia* 1956 (3): 195 (boxfish exudation). Halstead, 1959, *Dangerous Marine Animals*. Whitley & Halstead, 1955, *Rec. Aust. Mus.* 23 (5): 211-227 (annotated bibliography, q.v.).

*Poisoning agents.* (See also Pollution.): Carr, 1947, *N. Qld. Nat.* 15 (84): 3. Fawcett, 1900, *Proc. Linn. Soc. London*: 86. MacPherson, 1933-1935, *Mankind* 1 (7): 157 & 1 (12): 9. Maiden, 1894, *Agric. Gazette N.S.W.* 5 (7): 470-472. Mitchell, 1848, *Trop. Austr.*: 372. Roth, 1901, *N. Qld. Ethnol. Bull.* 3: 19. Schultz, 1948, *Copeia* 1948 (2): 94 (rotenone). Shirley, 1895, *Proc. Roy. Soc. Qld.* 11: 88-90. Smithsonian Inst. *Anthrop. Papers* 38, 1953: 243 (with bibliography).

## POLLUTION. (See also Mortality.)

[Possibly the first record of fish pollution in Australia was that reported from Victoria in 1841 by Hopton, 1951, in *J. Proc. Roy. Aust. Hist. Soc.* 36 (5): 243-244.]

Anon., 1947, *Agric. Gazette N.S. Wales* Dec. 1947: 637. P. Dickinson, 1952, *N. Zeal. Engineering* 7: 43-47. Entom. Branch, 1948, *Agric. Gazette N.S. Wales* 59 (3): 152 (effect of D.D.T.). Hindwood, 1953, *Emu* 53: 90. Mansfield, 1956, *Australas. Aqua Life* 1 (11): 13-14, figs. Marshall, 1924, *Council Munic. Mosman Rept.* 1922-23: 35. J. M. Thomson, 1963, *Austr. J. Sci.* 25 (9): 414-415, fig. 1.

*Oil-pollution:* Anon., 1955, *Fisher. Dept. W. Aust. Monthly Serv. Bull.* 4 (6): 94-97. Dickison, 1951, *Emu* 51: 238. Mayo, 1933, *Emu* 32: 328 and 35: 310 (see also *Emu Index* 1938: 49). Morris, 1929, *Vict. Nat.* 46: 170.

## PREDATORY FISHES. (See also Venomous Fishes.)

Bartlett, 1954, *Pearl Seekers*: 146, 231 et seq. Boddeke, 1963, *Nature* Feb. 16: 714-715. Whitley, 1963, *Internat. Convention Life Saving Tech.* 1960 (B), passim. pls A-B (bibliography. 62-63, q.v.).



## RAINS OF FISHES.

Gudger, 1929, *Ann. Mag. Nat. Hist.* (10): 3: 13. Haysom, 1959, *Qld. Fisher. Info. Bull.* 16: 1. McCulloch, 1925, *Aust. Mus. Mag.* 2 (6): 217-218. Ogilby, 1906, *Proc. Roy. Soc. Qld.* 20: 28 *et ibid.* 21, 1908: 12. Palmer, 1902, *Proc. Linn. Soc. N.S. WALES* 26: 515. Shipway, 1947, *N. Qld. Nat.* 15 (85): 10 and *W.A. Nat.* 1 (2), 1947: 47. Stewart, 1959, *Finchat*, May 1959: 29. Whitley, 1954, *Aust. Mus. Mag.* 11 (5): 154-155. Whitley, 1961, *Aust. Mus. Mag.* 13: 333-334.

[There are many accounts in newspapers, yet to be assembled.]

REPRODUCTION. (*See also* Hermaphroditism, Planktonic ova and larvae, and Sex Dimorphism.)

*Fecundity*: Blackburn, 1941, *C.S.I.R. Bull.* 138: 16 (maturity scale). Smith & Thomson, 1957, *Fisher. Dept. W. Austr. Monthly Serv. Bull.* 6 (11): 150. Stead, 1936, *Aust. Nat.* 9 (7): 157 (maturity in snapper).

[The reports of fisheries inspectors in various State departmental Annual Reports and in New Zealand are notable.]

*Storage of milt*: Butcher, 1944, *Aust. J. Sci.* 7 (1): 23-25.

*Larval fishes.*

[Information on *Neoceratodus*, sharks, rays and various fishes is scattered through literature. Following are some general treatises. As many as 2,170 embryos have been found in a *Cristiceps*.]

Graham, 1927, *Pairing, Courtship and Parental Care among three New Zealand Fishes.* Graham, 1939, *Trans. Roy. Soc. N. Zeal.* 69: 369, pls 45-46. Haswell, 1890, *Rept. 2nd Meet. Aust. Assn. Adv. Sci.*: 482 (shore eel). Munro, 1954, *Aust. J. Mar. freshw. Res.* 5: 64, pl. 1 (flying fish). Regan, 1916, *Brit. Antarctic Exp., Zool.* 1 (4): 125-152. Thomson & Bennett, 1953, *Aust. J. Mar. freshw. Res.* 4 (2): 227-233, figs 1-3 (blenny). Whitley, 1950, *Proc. Roy. Zool. Soc. N.S. Wales* 1948-9: 28 (Port Jackson Shark). Whitley & Allan, 1958, *Seahorse & Relatives*: 16 *et seq.* (Syngnathidae).

*Nests*: Hamilton, 1891, *Syd. Quarterly Mag.* 8 (4): 318-320 (catfish). T. Mitchell, 1848, *J. Exped. Trop. Austr.*: 371 (catfish). Semon, 1899, *In Austr. Bush*: 197, etc. (catfish).

*Buccal incubation*: Fowler & Bean, 1930, *Bull. U.S. Nat. Mus.* 100 (10): 4, figs. Hale, 1947, *S. Aust. Nat.* 24 (3): 1, figs. Ogilby, 1889, *Proc. Linn. Soc. N.S.W.* (2) 3 (4): 1559. Stead, 1934, *Abstr. Proc. Linn. Soc. N.S. WALES* 470: 2. Tryon, 1934, *Qld. Nat.* 9: 30.

## RESPIRATION.

Hora, 1933, *J. Bombay Nat. Hist. Soc.* 36: 538, figs.

## SEX DIMORPHISM.

Bertelsen, 1951, *Dana Rept.* 39: 14, figs (Ceratioidea). Blackburn, 1950, *Aust. J. Mar. freshw. Res.* 1 (2): 157, 182, etc. Fraser-Brunner, 1940, *Ann. Mag. Nat. Hist.* (11) 6: 390 (boxfishes). Graham, 1939, *Trans. Roy. Soc. N. Zeal.* 69: 370 (clingfish). McCann, 1953, *Rec. Dom. Mus.* 2 (1): 1, figs. McCulloch, 1914, *Aust. Zool.* 1 (1): 29-31, 4 figs (pipefishes). Troschel, 1870, *Arch. Naturg.* 36 (4): 276. Whitley, 1940, *Fish. Austr.* 1: 48 & 130 (sharks and skates).

[It is not possible to distinguish male from female fishes externally in the great majority of cases. It is necessary to open the body-cavity and see if there are eggs in the roe of the female or hard roe (milt) in the male. Sharks and rays have "claspers", long appendages next to the ventral fins in the males. The females are without these. The jaws and teeth of many sharks and skates are different in shape in males and females.

In the breeding season, the females of ordinary bony fishes may be distended by roe, or, in the case of aquarium fishes, a female may be chased by more than one male, which is often smaller and slenderer. Usually the differences are so slight that they cannot be described, but males of some fishes are more brilliantly coloured in the nuptial season. The colours of many parrot fishes are so different according to sex that males and females have been considered to belong to separate species. Carp often have small pearly dots on the head (the "pearl organs") in the male fish. Dorsal fin-rays may be lengthened in male Western Australian "Jewfish" (*Glaucosoma*) and the tail-corners pointed in female Angel Fishes.

The structure of the fins and proportion of the bodies vary subtly in the sexes in certain leatherjackets, boxfishes, blennies, the Tasmanian troutlet and clingfishes. The male salmon often develops hooked jaws with age and the males of certain gobies and blennies have lengthened jawbones. In Pipefishes and Seahorses the males have a brood-pouch for carrying the eggs, laid therein by the female. Some catfishes have differently shaped ventral fins in the two sexes. Pigmy Garfish and certain live-bearers are characterized by the lengthened rays in the anal fins of the males and there is a well-developed "genital cage" in brotulid fishes. The distance between the eyes differs in the sexes of some flounders and these may have much lengthened fin-rays in males. Unicorn fishes show sex-dimorphism in the shape of the head. Some deep-sea angler fishes have degenerate parasitic males.]

## SEX RATIO.

Kesteven, 1942, *C.S.I.R. Bull.* 157: 62 & 135 (mullet). Whitley, 1945, *Austr. Zool.* 11: 11 (sharks).

## SIZE.

[Maximum sizes are given under species in general works by McCulloch, Munro, Whitley and others. Record game fishes are recorded annually by the International Game Fish Association at the American Museum of Natural History, New York.

Minimum legal lengths at which fish may be caught are stipulated by State Fisheries Depts.]

Bancroft, 1933, *Proc. Linn. Soc. N.S. Wales* 58: 468 (lungfish). Bruun, 1940, *Dana Rept.* 21: 10 (lightest fish is *Schindleria*). Hemmingsen, 1934, *Vidensk. Medd. fra Dansk. naturh. Foren* 98: 125-160, pls 7-19. Schultz, 1938, *Journ. Mammal.* 19 (4): 480 (formulae for large sharks, whales, etc.). Smith & Thomson, 1957, *Fisher. Dept. W. Austr. Monthly Serv. Bull.* 6 (11): 148-150 (minimum sizes of fishes at maturity). Whitley, 1955, *Aust. Mus. Mag.* 11 (10): 329, figs (largest and smallest).

## SKELETON.

Chabanaud, 1933, *Mem. Soc. Sci. Nat. Maroc.* 35, and his other papers (flatfishes). Gosline, 1961, *Smithson. Misc. Coll.* 142 (3): 1, figs. *Jap. J. Ichth.* 4, 1955: 162. Romeo & Mansueti, 1962, *Chesapeake Science* 3 (4): 257-263, figs (esp. *Euthynnus*). Waite, 1902, *Rec. Aust. Mus.* 4: 292, pls 45-46 (*Luvarus*). Weitzman, 1962, *Stanford Ichth. Bull.* 8 (1): 1-78, figs 1-21.

*Locking-mechanism of fin-spines*: Monod, 1958, *Bull. Mus. nat. Hist. Nat. (Paris)* (2) 30: 498, figs 3-4.

*Green and blue bones of certain fishes.*

[According to Cole, 1944, *Hist. Compar. Anat.*: 379, Borch in 1673 was apparently the first to observe green bones in *Belone*, followed by Willughby, 1686, and others. There may be mention of this colouring matter in general works on the skeleton, but the following deal specifically with the subject: Krukenberg, C. F., 1882, *Vergl. Physiol. Studien*, Heidelberg, ii, 3, Abth.: 139-143. Wagenaar, M., 1939, *Arch. neerl. Zool.* 4: 103-105. Fontaine, M., 1941, *Bull. Inst. Oceanogr. Monaco* 793: 1-3.]

## SKULL.

Gregory, 1933, *Trans. Amer. Philos. Soc.* 23: 1-481, figs 1-302. Harrington, 1955, *Copeia* 1955 (4): 267, figs (synonymy of skull bones). Haswell, 1884, *Proc. Linn. Soc. N.S. Wales* 9: 71, figs (elasmobranchs). H. Kesteven, 1926, *Rec. Aust. Mus.* 15: 132-140, 8 figs. H. Kesteven, 1942, *Aust. Mus. Mem.* 8. Whitley, 1941, *Aust. Mus. Mag.* 7 (9): 307, fig. ("crucifix" in catfish skull).

## SLEEP.

Graham, 1953, *Treasury N. Zeal. Fish.*: 273. Qasim, 1955, *Nature* 175: 217, fig. (larval fishes). Weber, 1961, *Zeitschr. Tierpsych.* 18 (5): 517, figs. Winn, 1955, *Zoologica* 40 (3): 145, pl. i (mucous envelope of sleeping parrot fishes). Zahl, 1952, *Nat. Geogr. Mag.* 101 (2): 200, fig. and plate on p. 206 (trigger fishes).

## SOUND-PRODUCTION.

Bernstein, 1956, *Natural History (New York)*, April 1956: 192, figs. Coppleson, 1958, *Shark Attack*: 34 et seq., 54, 133, 164-5, 170, 171 & 177. Hardenberg, 1934, *Zool. Anzeiger* 108: 224-227, fig. 1. Kellogg, 1953, *Amer. Mus. Novit.* 1611: 1-5 (bibliography). E. Scott, 1955, *Proc. Roy. Soc. Tas.* 89: 136 (pipefish). Wilimovsky, 1954, *Copeia* 1954 (2): 161 (further refs on those given by Kellogg, *loc. cit.*).

## SPEED. (See Locomotion.)

## TELEVISION.

[The dissection of a Stingray by the late Alan Colefax was televised at the A.N.Z.A.A.S. Science Congress at the University of Sydney in August, 1952.]

Anon., 1953, *Fisheries Newsletter* 12 (4): 24, 3 figs (television in fish research).

## TEMPERATURE.

*Sea-temperatures.*

[Sea-temperatures and water-movements, knowledge of which is so important when dealing with migratory fish, are still incompletely understood in Australasia. Arousseau (1959, *J. Proc. Roy. Soc. N.S. Wales* 92: 104-114) recorded surface temperatures of Australian seas, but had no data for much of northern Australia. From the Northern Territory to Thursday Island, Queensland, in October, 1949, I noted sea-temperatures of 26.8 to 28.6° C. In July, 1949, in the same region Serventy (MS) read 24.5 to 25.6° C. At the Abrolhos Islands, Western Australia, in December, 1945, the surface temperature ranged from 21 to 23° C. Australian sea-surface temperatures in relation to shark attacks were shown in Coppleson (1958, *Shark Attack*: 114-115). A chart of sea temperatures was prepared by the Royal Dutch Meteorological Institute at De Bilt, Ref. No. 124, and one of ocean currents by the United States Navy Hydrographic Office, Publ. no. 568. Work is continuing by scientists of the C.S.I.R.O. Division of Fisheries and Oceanography, Cronulla, New South Wales, some indication of the measures being adopted having been published in *Fisheries Newsletter*, Nov., 1961: 19-22, figs 1-3.]



Aurousseau, 1959, *J. Proc. Roy. Soc. N.S. Wales* 92: 104-114, illustr. Coppleson, 1962, *Shark Attack*, ed. 2: 43-163 (a table which appeared in the first edition, pp. 114 & 115, is not reproduced). Dakin, 1952, *Aust. Seashores*.

*Technique of shipping fishes alive in ice*: Amsnaes, 1954, *Natural History* (New York), Nov. 1954: 405-407, photos.

*Hot springs, etc.; freshwater temperatures*: R. Miller, 1949, *Aquar. Journ.* 20 (11): 286. Whitley, 1960, *Freshw. Fish. Aust.*: 9-11 and under species.

#### TERATOLOGY. (See also Coloration and Pathology.)

*Fin-abnormalities*: Catala, 1949, *Bull. Soc. Zool. France* 74: 108-111, pl. i (aberrant spinous dorsal in *Heniochus*). Iredale & Whitley, 1929, *Aust. Mus. Mag.* 3 (12): 423, figs (leather-jackets). Myers, 1946, *Copeia* 1946, 1: 41 (fishes lacking ventral fins). E. Pope, 1945, *Aust. Mus. Mag.* 8 (11): 383, fig. (leatherjacket). Whitley, 1940, *Fish. Aust.* 1: 173-174 & 181 (pectorals). Whitley, 1943, *Aust. Zool.* 10 (2): 177 (*Euleptorhamphus* without ventrals).

*Heterosomata*: Chabanaud, 1936, *Bull. Mus. Nat. Hist. Nat. Paris* (2) 8: 394, figs. Chabanaud, 1939, *Arch. Mus. Hist. Nat. Lyons* 15: 1, figs 1-3. Gudger, 1935-37, *Amer. Mus. Novit.* 768, 811, 885, 896, 897, 925 and 959. Gudger, 1935a, *Journ. Morph.* 58: 1. Gudger, 1941, *Copeia* 1941 (1): 28. Gudger, 1945, *Science* 102: 672. Norman, 1934, *Monogr. Flatfishes* 1: 22-29, figs 16-19. Whitley, 1949, *Aust. Mus. Mag.* 9 (11): 381.

*Pug-headed fishes*: Ogilby, 1893, *Ed. Fish. N.S. Wales*: 126. Whitley, 1944, *Aust. Mus. Mag.* 8: 200, figs. Young, 1929, *Trans. N. Zeal. Inst.* 60: 147, pl. 17, fig. B.

*Two-headed sharks and fishes*: Anon., 1838, *Hobart Town Courier*, March 9: 3 (shark). Arudpragasam, 1960, *Ceylon J. Sci. (Biol. Sci.)* 3 (2): 167, pls 1-4 (anatomy of two-headed shark). Cox, 1892, *Proc. Linn. Soc. N.S. WALES* 7: 41 (shark). Gemmill, 1895, *Proc. Zool. Soc.* 423 & 1903, *ibid.*, 2: 4-23, pl. (fishes, &c.). B. G. Smith, 1942, *Bashford Deep Mem.* Vol. 8: 750, pl. 5, fig. 62 (*Heterodontus*). Whitley, 1937, *Aust. Mus. Mag.* 6 (5): 154, figs (fishes & sharks). Whitley, 1939, *Aust. Mus. Mag.* 6 (12): 432 (sharks). Whitley, 1940, *Fish. Aust.* 1: 60, figs (sharks).

*Various abnormalities*: Breder, 1934, *Bull. N.Y. Zool. Soc.* 37 (5): 141, illustr. Chabanaud, 1927, *Arch. Mus. Hist. Nat. Paris* (6) 2: 35, plates (Sciaenoids). D'Ombrain, 1957, *Game Fishing Aust.*, pl. opp. p. 63 (twin-beaked marlin). Graham, 1953, *Treasury N. Zeal. Fishes, passim*. Gudger, 1930, *Amer. Mus. Novit.* 444: 1-7, figs. Gudger, 1936, *Sci. Monthly* 43: 252-261 (earliest records). Morrow, 1951, *Copeia* 1951 (4): 303, fig. 1 (marlin without spear). Pope, 1936, *Proc. Linn. Soc. N.S. WALES* 41: p. xvii (snapper). Schaperclaus, 1941, *Fischkrankheiten*. Whitley, 1929, *Proc. Roy. Soc. Tas.* 1928: 55, pl. 4, fig. 5. Whitley, 1940, *Aust. Mus. Mag.* 7 (5): 179-180, 2 figs (two-mouthed fishes). Whitley, 1943, *Proc. Linn. Soc. N.S.W.* 58: 126, fig. 6 (*Rhinobatus*). Whitley, 1952, *Proc. Roy. Zool. Soc. N.S. Wales* 1950-51: 30, fig. 4. Whitley, 1961, *Aust. Mus. Mag.* 13 (9): 298-301, 4 figs (freaks).

#### TERRITORIALITY.

Bayer & Rofen, 1957, *Ann. Rept. Smithson. Inst.* 1956: 495. Forseluis, 1957, *Zool. Bidrag Uppsala* 32: 159 et seq., 422 et seq., etc., figures. Gerking, 1959, *Biol. Rev. Cambr. Philos. Soc.* 34 (2): 221. Hass, 1958, *We Come from the Sea*: 160, pl. opp. p. 129 (attacking mirror reflections). Herald, 1956, *Copeia* 1956 (3): 195. Randall, 1958, *Pacific Science* 12 (4): 327-347. Robins & Phillips, 1959, *Zoologica* 44 (2): 77, pls 1-3, & fig.

#### TIME.

[The angle of the light of the sun or moon and the rise and fall of the tides affect fishes, but it seems that they also have a "time-sense", so far little understood by man. The spawning of the Grunion (*Leuresthes*) in California and Whitebait (*Austrocobitis*) in New Zealand must occur within an extremely limited period to be successful.]

Blanco, 1958, *Phil. J. Fisher.* 4: 33. Brain, 1951, *Mind, Perception & Science*: 44 et seq. Gamulin & Hure, 1956, *Nature* Jan. 28: 193, fig. (evening spawning of sardine). Hass, 1952, *Under the Red Sea*: 142. J. Randall, 1945, *Proc. Hawaiian Acad. Sci.* 1954-5 (unpaged). L. E. Russell, 1951, *Let's Go Fly Fishing*: 129.

#### TYPES (See also Logotypes.)

*Lists of types in Museums containing Australasian species*: Anon., 1961, *W. Aust. Mus. Ann. Rept.* 1959-60: 28. Bauchot & Blanc, 1961, *Bull. Mus. Nat. Hist. Paris* 33 (4): 369. Bauchot a.o., 1960, *Bull. Mus. Nat. Hist. Paris* (2) 32: 290. Klausewitz, 1960, *Senckenb. Biol.* 41: 289, pls & figs. Ladiges, Wahlert & Mohr, 1958, *Mitt. Hamburg Mus.* 56: 155, 169-171. Le Danois, 1961, *Bull. Mus. Nat. Hist. Nat., Paris* (2) 32: 513-527 and (2) 33: 276-281 and 462-478. Powell, 1941, *Rec. Auckland Inst.* 2: 239 and 3: 403 (Pisces, pp. 258-259). Ramsay, 1885, *Aust. Mus. Ann. Rept.* 1884: 42-46 and 1885: 5 (Day's types in Australian Museum). Tortonese, 1961, *Ann. Mus. Civico Stor. Nat. Giac. Doria, Genova*, 72: 179-191. Wahlert, 1955, *Veröff. Übersee Mus. Bremen*, A, 2 (5): 323-326, figs 1-2. Whitley, 1957, *List of Type-Specimens of Recent Fishes in The Australian Museum*, Sydney. Roneed: 1-40.

#### VELUM MAXILLARE.

Gudger, 1935, *J. Morph.* 57: 91, figs. Müller & Henle, 1837, *Ber. Verh. K. Prus. Akad. Wiss. Berlin*: 111.

## VENOMOUS FISHES. (See also Predatory Fishes.)

Gillis, 1961, *N. Qld. Nat.* 29 (130): 3-5, figs 1-4 (stonefish). Steinitz, 1959, *Copeia* 1959 (2): 158-160 (*Pterois*). Whitley, 1963, Suppl. to Bull. Post-Graduate Ctee. in Medicine, Univ. Syd. 18 (12): 41-63 (with bibliography, q.v.), pls A-B. Whitley & Halstead, 1955, *Rec. Aust. Mus.* 23 (5): 211-227 (q.v. for annotated bibliography).

## VERTEBRAE. (See also Skeleton.)

Clothier, 1950, Calif. Fish. Bull. 79, illustr. Springer & Bullis, 1960, *Bull. Mar. Sci. Gulf & Caribbean* 10: 241, fig. 2 (*Pristiophoridae*). Stokell, 1941, *Rec. Canterb. Mus.* 4 (7): 364 (*Retropinna*). Stokell, 1945, *Trans. Roy. Soc. N. Zeal.* 75: 127. Stokely, 1952, *Copeia* 1952 (4): 255, figs. Whitley, 1945, *Austr. Zool.* 11: 8, fig. 5a (sharks).

## VISCERA.

Barnstock, 1957, *Nature* 4600, Dec. 28, 1957: 1491, figs 1-2 (observed through "window").

## VISION.

Beach, 1941, *Natural History* (New York) 48 (2); Sept. 1941: 66 & 127 (fishes not colourblind). Hora, 1938, *J. Bombay Nat. Hist. Soc.* 40 (1): 62, figs (aerial vision). Pincher, 1947, *Discovery* 8 (7): 209-215, figs 1-7.

## VITAMINS.

Anon., 1947, *Fisheries Newsletter* 6 (2): 19 (bibliography available). Cunningham, 1935, *N. Zeal. J. Sci. Tech.* 17 (3): 563-567. Cunningham, 1939, *Austr. J. exper. Biol. Med. Sci.* (Adelaide) 17: 457-464. Denz & Shorland, 1934, *N. Zeal. J. Sci. Tech.* 15 (5): 327. Ferguson Wood & Kuchel, 1941, *J.C.S.I.R.* 14 (1): 47-57. Jowett & Davies, 1938, C.S.I.R. Pamphlet 85. Julius a.o., 1937, Eleventh Ann. Rept. C.S.I.R.: 64, and later annual reports. Malcolm, 1927, *Trans. N. Zeal. Inst.* 57: 879-880.

## WEATHER AND WINDS. (See also Time.)

Dannevig, 1907, On some peculiarities in our coastal winds and their influence upon the abundance of fish in inshore waters, *Proc. Roy. Soc. N.S. Wales* 41: 27-45, diagrams A-H. G. Kesteven, 1946, *Fisheries Newsletter*, Oct. 1946. Serventy, 1947, *Journ. Counc. Sci. Industr. Res.* 20 (1): 15-16 (weather and tuna fishing). Tosh, 1903, *Marine Biologist's Report* (Parliament. Rept. Queensland Marine Dept. 1902-3), appendix 7: 2 (weather affecting movements of mullet). Whitley, 1940, *Fishes of Australia* 1: 14, 18-20, and 266-268 (weather and sharks).

## X-RAYS.

Abbie, 1959, Bull. Post-Graduate Ctee. Med. Univ. Syd. 15 (3): 115, 118. Bonham & Baycliff, 1953, *Copeia* 1953 (3): 150, pl. i. Gosline, 1948, *Copeia* 1948 (1): 58. Nissen, 1951, *Schöne Fischbüchlers* 36. R. Miller, 1953, *X-ray News* (G.E.C., Milwaukee) Dec. 1953: 6, figs. R. Miller, 1957, *Syst. Zool.* 6 (1): 29, illustr. Sherrard, 1896, *Illustr. Handbk. Aquar.* Melbourne.

## ZODIACAL FISHES.

Blavatsky, 1925, *Secret Doctrine*, i, ii, *passim*. Singer, 1943, *A Short History of Science*: 118, fig. 50. Singer, 1958, *From Magic to Science*: 85, etc., figs.

## APPENDIX B: NAME-LIST OF THE FISHES RECORDED FROM AUSTRALIA.

My late mentor in ichthyology, Allan R. McCulloch, compiled a manuscript list of the genera and species of Australian fishes which was published, with some modifications, after his death, as the fifth Memoir of the Australian Museum in 1929 and 1930. This "Check-list of the Fishes recorded from Australia" embraced some two thousand nominal species. In the last thirty years and more, many additions have been made as the result of collecting in deeper water or in remoter localities than were accessible in McCulloch's days and some species have been shown to be synonyms so that an up-to-date list is overdue.

The list now presented does not include synonyms or nomina nuda and some obviously non-Australian species in McCulloch's list have been omitted. References to most of the genera and species will be found in McCulloch (1929) or in later papers listed in the bibliography hereunder. This new list follows the same order as McCulloch's 1929 Check-list, which may be consulted for names of classes, orders and families. At the present time 2456\* nominal species are known, as follows:

- |   |  |
|---|--|
| 1. <i>Branchiostoma</i> ( <i>Amphipleurichthys</i> )<br><i>minucauda</i> Whitley, 1932. | 4. <i>Paramphioxus</i> <i>bassanus</i> (Gunther,<br>1884). |
| 2. <i>Bathyamphioxus</i> <i>franzi</i> Whitley, 1932.                                   | 5. <i>Epigonichthys</i> <i>cuttellus</i> Peters, 1877.     |
| 3. <i>Bathyamphioxus</i> <i>australis</i> (Raff,<br>1912).                              | 6. <i>Merscalpellus</i> <i>hedleyi</i> (Haswell,<br>1908). |

\* Excluding such new species and records as may be in the newly announced Australian-American Arnhem Land Expedition's Report, not yet to hand at time of proof-reading (June, 1964).



7. *Notasymmetron caudatum* (Willey, 1896).
8. *Geotria australis* Gray, 1851.
9. *Mordacia mordax* (Richardson, 1846).
- 9a. *Hexanchus griseus* (Bonnaterre, 1788).
10. *Heptanchias dakini* Whitley, 1931.
11. *Notorynchus cepedianus* (Peron, 1807).
12. *Heterodontus portusjacksoni* (Meyer, 1793).
13. *Molochophrys galeatus* (Gunther, 1870).
14. *Hemiscyllium freycineti* (Quoy & Gaimard, 1824).
15. *Hemiscyllium ocellatum* (Bonnaterre, 1788).
16. *Hemiscyllium trispeculare* (Richardson, 1843).
17. *Chiloscyllium punctatum* Muller & Henle, 1838.
18. *Parascyllium collare* Ramsay & Ogilby, 1888.
19. *Parascyllium ferrugineum* McCulloch, 1911.
20. *Parascyllium variolatum* (Dumeril, 1853).
21. *Parascyllium* (*Neoparascyllium*) *multimaculatum* Scott, 1935.
22. *Brachaelurus waddi* (Bloch & Schneider, 1801).
23. *Orectolobus ornatus* (De Vis, 1883).
24. *Orectolobus maculatus* (Bonnaterre, 1788).
25. *Orectolobus wardi* Whitley, 1939.
26. *Eucrossorhinus ogilbyi* (Regan, 1909).
27. *Sutorectus tentaculatus* (Peters, 1864).
28. *Stegostoma tigrinum* (Pennant, 1769).
29. *Nebrodes concolor ogilbyi* Whitley, 1934.
30. *Heteroscyllium colcloughi* (Ogilby, 1908).
31. *Rhincodon typus* Smith, 1829.
32. *Asymbolus analis* (Ogilby, 1885).
33. *Juncrus vincenti* (Zietz, 1908).
34. *Aulohalaclurus labiosus* (Waite, 1905).
35. *Figaro boardmani* (Whitley, 1928).
36. *Figaro boardmani socius* Whitley, 1939.
37. *Cephaloscyllium isabella laticeps* Dumeril, 1853.
38. *Cephaloscyllium isabella laticeps nascione* Whitley, 1932.
39. *Atelomycterus macleayi* Whitley, 1939.
40. *Gillisqualus amblyrhynchoides* Whitley, 1934.
41. *Platypodon coatesi* Whitley, 1939.
42. *Platypodon gangeticus* Muller & Henle, 1839.
43. *Platypodon menisorrhah* Muller & Henle, 1839.
44. *Galeolamna coongoola* Whitley, 1964.
45. *Galeolamna dorsalis* Whitley, 1944.
46. *Galeolamna greyi* Owen, 1853.
47. *Galeolamna isobel* Whitley, 1947.
48. *Galeolamna pleurotaenia tilstoni* Whitley, 1950.
49. *Galeolamna ahenea* (Stead, 1938).
50. *Galeolamna eblis* Whitley, 1944.
51. *Galeolamna macrurus* (Ramsay & Ogilby, 1887).
52. *Galeolamna mckaili* Whitley, 1945.
53. *Galeolamna cauta* Whitley, 1945.
54. *Galeolamna fowleri* Whitley, 1944.
55. *Galeolamna* (*Lamnarius*) *spenceri* (Ogilby, 1911).
56. *Galeolamna* (*Ogilamia*) *stevensi* (Ogilby, 1911).
57. *Galeolamna* (*Uranganoops*) *fitzroyensis* Whitley, 1943.
58. *Galeolamna* (*Bogimba*) *bogimba* Whitley, 1943.
59. *Mapolamia spallanzani* (Le Sueur, 1822).
60. *Carcharhinus mackiei* (Phillipps, 1935).
61. *Uranga nasuta* Whitley, 1943.
62. *Longmania brevipinna* (Muller & Henle, 1839).
63. *Longmania calamaria* Whitley, 1944.
64. *Negogaleus microstoma* (Bleeker, 1852).
65. *Triaenodon apicalis* Whitley, 1939.
66. *Mystidens inuominatus* Whitley, 1944.
67. *Hypoprion hemiodon* (Muller & Henle, 1839).
68. *Hypoprion macloti* (Muller & Henle, 1839).
69. *Scoliodon jordani* Ogilby, 1908.
70. *Protozygaena longmani* (Ogilby, 1912).
71. *Negaprion queenslandicus* (Whitley, 1939).
72. *Galeocerdo cuvier* (Le Sueur, 1822).
73. *Furgaleus macki* (Whitley, 1943).
74. *Furgaleus ventralis* (Whitley, 1943).
75. *Notogaleus rhinophanes* (Peron, 1807).
76. *Emissola antarctica* (Gunther, 1870).
77. *Emissola maugeana* Whitley, 1939.
78. *Emissola ganearum* Whitley, 1945.
79. *Rhizoprionodon crenidens* (Klunzinger, 1879).
80. *Physodon mulleri* (Muller & Henle, 1839).
81. *Sphyrna lewini* (Griffith, 1834).
82. *Sphyrna ligo* Fraser-Brunner, 1950.
83. *Lamna whitleyi* Phillipps, 1935.
84. *Isuropsis mako* Whitley, 1929.
85. *Carcharodon albimors* Whitley, 1939.
86. *Odontaspis herbsti* Whitley, 1950.
87. *Carcharias arenarius* Ogilby, 1911.
88. *Carcharias tricuspidatus* Day, 1878.
89. *Alopias caudatus* Phillipps, 1932.
90. *Alopias greyi* Whitley, 1937.
91. *Mitsukurina owstoni* Jordan, 1898 (? Australian).
92. *Halsydrus maccoyi* (Barrett, 1933).
93. *Koinga lebruni* (Vaillant, 1888).
94. *Koinga whitleyi* (Phillipps, 1931).
95. *Flakeus tasmaniensis* (Rivero, 1936).
96. *Flakeus megalops* (Macleay, 1881).
97. *Oxynotus brunienis* (Ogilby, 1893).
98. *Centrophorus* (*Gaboa*) *harrissoni* McCulloch, 1915.
99. *Centrophorus* (*Proscymnodon*) *plunketi* Waite, 1910.
100. *Centrophorus scalpratus* McCulloch, 1915.

101. *Centrophorus (Somnispinae) nilsoni* Thompson, 1930.
102. *Deania kaikourae* (Whitley, 1934).
103. *Deaniops quadrispinosus* (McCulloch, 1915).
104. *Euprotomicrus bispinatus* (Quoy & Gaimard, 1824).
105. *Acanthidium mollerii* Whitley, 1939.
106. *Scimnus philippii* (Whitley, 1931).
107. *Echinorhinus (Ribusqualus) mccoysi* Whitley, 1931.
108. *Leius ferox* Kner, 1865.
109. *Squatina australis* Regan, 1906.
110. *Squatina tergocellata* McCulloch, 1914.
111. *Pristiophorus cirratus* (Latham, 1794).
112. *Pristiophorus nudipinnis* Gunther, 1870.
113. *Pristis clavata* Garman, 1906.
114. *Pristis zijsron* Bleeker, 1851.
115. *Pristiopsis leichhardti* Whitley, 1945.
116. *Rhinobatos batillum* Whitley, 1939.
117. *Aptychotrema bougainvillii* (Muller & Henle, 1841).
118. *Aptychotrema rostrata* (Shaw & Nodder, 1794).
119. *Aptychotrema vincentiana* (Haacke, 1885).
120. *Rhynchobatus djiddensis* (Bonnaterre, 1788).
121. *Trygonorrhina fasciata* Muller & Henle, 1841.
122. *Trygonorrhina fasciata guenerius* Whitley, 1932.
123. *Trygonorrhina melaleuca* T. D. Scott, 1954.
124. *Rhina ancylostomus* Bloch & Schneider, 1801.
125. *Raja cerva* Whitley, 1939.
126. *Raja australis* Macleay, 1884.
127. *Raja (Dentiraja) dentata* Klunzinger, 1872.
128. *Raja lemprieri* Richardson, 1845.
129. *Zearaja nasuta* (Muller & Henle, 1841).
130. *Zearaja gudgeri* Whitley, 1940.
131. *Pavoraja nitida* (Gunther, 1880).
132. *Pavoraja (Argoraja) polyommata* (Ogilby, 1910).
133. *Spiniraja whitleyi* (Iredale, 1938).
134. *Irolita waitii* (McCulloch, 1911).
135. *Notastrape macneilli* Whitley, 1932.
136. *Narcinops tasmaniensis* (Richardson, 1842).
137. *Hypnos monoptygium* (Shaw & Nodder, 1795).
138. *Bathytoshia thetidis* (Waite, 1899).
139. *Bathytoshia brevicaudata* (Hutton, 1875).
140. *Toshia fluviatorum* (Ogilby, 1908).
141. *Neotrygon kuhlii* (Muller & Henle, 1841).
142. *Urogymnus asperrimus solanderi* Whitley, 1939.
143. *Urolophus sufflavus* Whitley, 1929.
144. *Urolophus bucculentus* Macleay, 1884.
145. *Urolophus cruciatus* (Lacepede, 1804).
146. *Urolophus expansus* McCulloch, 1916.
147. *Urolophus testaceus* (Muller & Henle, 1841).
148. *Urolophus mucosus* Whitley, 1939.
149. *Urolophus viridis* McCulloch, 1916.
150. *Urolophus gigas* T. D. Scott, 1954.
151. *Gymnura australis* (Ramsay & Ogilby, 1886).
152. *Taeniura lymnia* (Bonnaterre, 1788).
153. *Taeniura meyeri* Muller & Henle, 1841.
154. *Pastinachus sephen ater* (Macleay, 1883).
155. *Himantura toshi* Whitley, 1939.
156. *Himantura granulata* (Macleay, 1883).
157. *Aetobatus australis* (Macleay, 1881).
158. *Aetobatus hamlyni* (Ogilby, 1911).
159. *Stoasodon punctatus* (Miklouho-Maclay & Macleay, 1886).
160. *Stoasodon ocellatus* (Kuhl, 1823).
161. *Rhenoptera neglecta* Ogilby, 1912.
162. *Mobula diabolus* (Shaw, 1804).
163. *Daemomanta alfredi* (Kreff, 1868).
164. *Psychichthys ogilbyi* (Waite, 1898).
165. *Psychichthys waitei* (Fowler, 1908).
166. *Phasmichthys leures* Whitley, 1939.
167. *Callorychus milii* Bory, 1823.
168. *Neoceratodus forsteri* (Kreff, 1870).
169. *Saccopharynx schmidti* Bertin, 1934.
170. *Elops (Gularus) australis* Regan, 1909.
171. *Megalops cyprinoides* (Broussonet, 1782).
172. *Albula neoguinaica* Cuvier & Valenciennes, 1846.
173. *Scleropages leichhardti* Gunther, 1864.
174. *Scleropages leichhardti jardinii* Saville-Kent, 1892.
175. *Chirocentrus dorab* (Bonnaterre, 1788).
176. *Dussumieria hasseltii* Bleeker, 1851.
177. *Etrumeus jacksonensis* Macleay, 1878.
178. *Stolephorus gracilis* (Temminck & Schlegel, 1846).
179. *Stolephorus robustus* (Ogilby, 1897).
180. *Stolephorus delicatulus macassariensis* Bleeker, 1849.
181. *Fiscina postera* (Whitley, 1931).
182. *Maugeclupea novaehollandiae* (Cuvier & Valenciennes, 1847).
183. *Escualosa macrolepis* (Steindachner, 1879).
184. *Escualosa abbreviata* (Cuvier & Valenciennes, 1847).
185. *Escualosa macrura* (Cuvier, 1829).
186. *Fimbriclupea dactylolepis* Whitley, 1940.
187. *Chupalosa bulan* (Bleeker, 1849).
188. *Chupalosa lippa* (Whitley, 1931).
189. *Macrura maccullochi* (Whitley, 1931).
190. *Macrura blackburni* Whitley, 1948.
191. *Macrura kanagurta* (Bleeker, 1852).
192. *Harengula koningsbergeri* (Weber & De Beaufort, 1912).
193. *Harengula punctata stereolepis* Ogilby, 1898.
194. *Harengula schlegelii* (Castelnau, 1873).
195. *Sardinops neopilchardus* (Steindachner, 1879).
196. *Sardinops (Fusiclupea) dakini* Whitley, 1937.



197. *Potamalosa richmondia* (Macleay, 1879).
198. *Hyperlophus vittatus* (Castelnau, 1875).
199. *Hyalosprattus translucidus* (McCulloch, 1917).
200. *Neosteus ditchela* (Cuvier & Valenciennes, 1847).
201. *Nematalosa come* (Richardson, 1846).
202. *Nematalosa erebi* (Gunther, 1868).
203. *Fluviolosa richardsoni* (Castelnau, 1873).
204. *Fluviolosa horni* (Zietz, 1896).
205. *Fluviolosa elongata* (Macleay, 1883).
206. *Fluviolosa vlaminghi* Munro, 1956.
207. *Fluviolosa paracome* Whitley, 1948.
208. *Fluviolosa bulleri* Whitley, 1948.
209. *Chanos chanos* (Bonnaterre, 1788).
210. *Austranchovia australis* (White, 1790).
211. *Scutengraulis hamiltoni* (Gray, 1830).
212. *Scutengraulis mystax* (Bloch & Schneider, 1801).
213. *Amentum devisi* Whitley, 1940.
214. *Amentum carpentariae* (De Vis, 1882).
215. *Thrissina nasuta* (Castelnau, 1878).
216. *Thrissina aestuaria* (Ogilby, 1910).
217. *Anchoviella indica* (Van Hasselt, 1823).
218. *Thrissocles setirostris* (Broussonet, 1782).
219. *Thrissocles dussumieri* (Cuvier & Valenciennes, 1848).
220. *Argentina elongata australiae* Cohen, 1958.
221. *Bathylagus argyrogaster* Norman, 1930.
222. *Bathylagus (Bathylagoides) antarcticus* Gunther, 1878.
223. *Salmo eriox* Linné, 1758. Introduced.
224. *Salmo salar* Linné, 1758. Introduced.
225. *Salmo gairdnerii* Richardson, 1836. Introduced.
226. *Salmo levenensis* Walker, 1808. Introduced.
227. *Salmo sebago* Girard, 1853. Introduced.
228. *Salmo gilberti* Jordan, 1894. Introduced.
229. *Oncorhynchus narka* (Bloch & Schneider, 1801). Introduced.
230. *Oncorhynchus tschaivytscha* (Donndorff, 1798). Introduced.
231. *Salvelinus fontinalis* (Mitchell, 1814). Introduced.
232. *Retropinna semoni* (Weber, 1895).
233. *Retropinna victoriae* Stokell, 1941.
234. *Retropinna tasmanica* McCulloch, 1920.
235. *Brachygalaxias pusillus* (Mack, 1936).
236. *Brachygalaxias nigrostriatus* (Shipway, 1953).
237. *Lepidogalaxias salamandroides* Mees, 1961.
238. *Austrocobitis attenuatus scriba* (Cuvier & Valenciennes, 1846).
239. *Galaxias occidentalis* Ogilby, 1899.
240. *Galaxias weedoni* Johnston, 1883.
241. *Galaxias atkinsoni* Johnston, 1883.
242. *Galaxias parkeri* Scott, 1936.
243. *Galaxias fuscus* Mack, 1936.
244. *Galaxias rostratus* Klunzinger, 1872.
245. *Galaxias truttaceus* (Cuvier, 1816).
246. *Galaxias truttaceus hesperius* Whitley, 1944.
247. *Galaxias auratus* Johnston, 1883.
248. *Galaxias coxii* Macleay, 1880.
249. *Galaxias nigothoruk* Lucas, 1892.
250. *Galaxias affinis* Regan, 1906.
251. *Galaxias ornatus* Castelnau, 1873.
252. *Galaxias kayi* Ramsay & Ogilby, 1886.
253. *Galaxias scopus* Scott, 1936.
254. *Galaxias johnstoni* Scott, 1936.
255. *Galaxias findlayi* Macleay, 1882.
256. *Galaxias bongbong* Macleay, 1881.
257. *Galaxias schomburgkii* Peters, 1869.
258. *Galaxias planiceps* Macleay, 1881.
259. *Galaxias planiceps waitii* Regan, 1906.
260. *Galaxias upcheri* Scott, 1942.
261. *Saxiliga cleaveri* (Scott, 1934).
262. *Saxiliga anguilliformis* Scott, 1936.
263. *Paragalaxias dissimilis* (Regan, 1906).
264. *Halaphya elongata* Gunther, 1839.
265. *Scarsia koefoedi primicrops* Parr, 1960.
266. *Prototroctes maraena* Gunther, 1864.
267. *Lovettia sealii* (Johnston, 1883).
268. *Rouleina eucla* Whitley, 1940.
269. *Ericara (Whitleyidea) nigra* (Gunther, 1878).
270. *Chauliodus danneviggi* McCulloch, 1916.
271. *Narooma benefica* Whitley, 1935.
272. *Mauroliscus muelleri* (Gmelin, 1789).
273. *Cyclothone microdon* Gunther, 1878.
274. *Gonostoma elongatum* Gunther, 1878.
275. *Polymetme illustris* McCulloch, 1926.
276. *Argyripnus iridescens* McCulloch, 1926.
277. *Diplophos taenia* Gunther, 1873.
278. *Sternoptyx diaphana* Hermann, 1781.
279. *Polyipnus tridentifer* McCulloch, 1914.
280. *Argyropelecus hemigygnus* (Cocco, 1829).
281. *Argyropelecus amabilis* (Ogilby, 1888).
282. *Pachystomias microdon* (Gunther, 1878).
283. *Stomias affinis* Gunther, 1887.
284. *Stomias gracilis* Garman, 1899.
285. *Opostomias micripnus* (Gunther, 1878).
286. *Idiacanthus fasciola* Peters, 1877.
287. *Astronesthes (Warreenula) lupina* Whitley, 1941.
288. *Gonorynchus greyi* (Richardson, 1845).
289. *Carassius auratus* (Linné, 1758). Introduced.
290. *Carassius carassius* Linné, 1758. Introduced.
291. *Neocarassius ventricosus* Castelnau, 1872.
292. *Leuciscus rutilus* (Linné, 1758). Introduced.
293. *Idus idus* (Linné, 1758). Introduced.
294. *Tinca tinca* (Linné, 1758). Introduced.
295. *Cyprinus carpio* Linné, 1758. Introduced.
296. *Plotosus anguillaris* (Bloch, 1794).
297. *Paraplotosus albilabris* (Cuvier & Valenciennes, 1840).

298. *Porochilus obbesi* Weber, 1913.  
 299. *Tandanus tandanus* (Mitchell, 1838).  
 300. *Tandanus bostocki* Whitley, 1944.  
 301. *Tandanus rendahli* (Whitley, 1928).  
 302. *Neosilurus robustus* Ogilby, 1908.  
 303. *Neosilurus hyrtlii* Steindachner, 1867.  
 304. *Neosilurus argenteus* (Zieter, 1896).  
 305. *Neosilurus mortoni* Whitley, 1941.  
 306. *Neosilurus brevidorsalis* (Gunther, 1867).  
 307. *Neosilurus glencoensis* (Rendahl, 1922).  
 308. *Lambertichthys ater* (Perugia, 1894).  
 309. *Anodontiglanis dahli* Rendahl, 1922.  
 310. *Caidoglanis macrocephalus* (Cuvier & Valenciennes, 1840).  
 311. *Euristhmus elongatus* (Castelnaud, 1878).  
 312. *Euristhmus lepturus* (Gunther, 1864).  
 313. *Ezilichthys nudiceps* (Gunther, 1880).  
 314. *Pararius proximus* (Ogilby, 1898).  
 315. *Pararius berneyi* (Whitley, 1941).  
 316. *Pararius godfreyi* (Whitley, 1941).  
 317. *Pararius graeffei* (Kner & Steindachner, 1867).  
 318. *Tachysurus mastersi* (Ogilby, 1898).  
 319. *Tachysurus broadbenti* Ogilby, 1908.  
 320. *Tachysurus leiotocephalus* (Bleeker, 1846).  
 321. *Netuma thalassina jacksoniensis* Whitley, 1941.  
 322. *Netuma venatica* (Richardson, 1845).  
 323. *Netuma vertagus* (Richardson, 1845).  
 324. *Neoarilus australis* (Gunther, 1867).  
 325. *Nemapteryx stirlingi* (Ogilby, 1898).  
 326. *Cochlefelis colcloughi* (Ogilby, 1910).  
 327. *Auommatophasma candidum* Mees, 1962.  
 328. *Synbranchus bengalensis gutturalis* Richardson, 1845.  
 329. *Ampipnopus cuchia* (Hamilton-Buchanan, 1822).  
 330. *Alabes rufus* (Macleay, 1881).  
 331. *Alabes dorsalis* (Richardson, 1845).  
 332. *Alabes cuvieri* Vaillant, 1905.  
 333. *Alabes parvulus* (McCulloch, 1909).  
 334. *Fluta alba* (Zuiew, 1793). Introduced.  
 335. *Anguilla bicolor* McClelland, 1844.  
 336. *Anguilla obscura* Gunther, 1872.  
 337. *Anguilla australis* Richardson, 1841.  
 338. *Anguilla reinhardtii* Steindachner, 1867.  
 339. *Diastobanchus danae* (Bruun, 1937).  
 340. *Nessorhamphus ingolfianus* (Schmidt, 1912).  
 341. *Cyema atrum* Gunther, 1878.  
 342. *Nemichthys scolopaceus* Richardson, 1848.  
 343. *Serrivomer bertini* Bauchot, 1959.  
 344. *Leptocephalus verreauxi* (Kaup, 1856).  
 345. *Leptocephalus wilsoni* (Bloch & Schneider, 1801).  
 346. *Leptocephalus wilsoni hesperius* Whitley, 1944.  
 347. *Leptocephalus labiatus* (Castelnaud, 1879).  
 348. *Forskaliichthys cinereus* (Ruppell, 1831).  
 349. *Anago anago* (Temminck & Schlegel, 1846).  
 350. *Scalanago lateralis* Whitley, 1935.  
 351. *Gnathophis habenatus habenatus* (Richardson, 1848).  
 352. *Gnathophis habenatus longicauda* (Ramsay & Ogilby, 1888).  
 353. *Gnathophis incognitus* Castle, 1963.  
 354. *Fimbriceps umbrellabia* Whitley, 1946.  
 355. *Bassanago bulbiceps* Whitley, 1948.  
 355a. *Ariosoma mauritianum* (Pappenheim, 1914).  
 355b. *Ariosoma scheelei* (Stromman, 1896).  
 356. *Muroenesox arabicus* (Bloch & Schneider, 1801).  
 357. *Saurenehelys finitimus* (Whitley, 1935).  
 358. *Myrophis australis* Castelnaud, 1879.  
 359. *Scolecenchelys tasmaniensis* (McCulloch, 1911).  
 360. *Scolecenchelys tasmaniensis smithi* Whitley, 1944.  
 361. *Scolecenchelys australis* (Macleay, 1881).  
 362. *Muraenichthys breviceps* Gunther, 1876.  
 363. *Muraenichthys laticaudata godeffroyi* Regan, 1909.  
 364. *Muraenichthys iredalei* Whitley, 1927.  
 365. *Muraenichthys devisi* Fowler, 1908.  
 366. *Muraenichthys ogilbyi* Fowler, 1908.  
 367. *Muraenichthys gymnotus* Bleeker, 1857.  
 368. *Muraenichthys macropterus* Bleeker, 1857.  
 369. *Leptognathus novaecelandiae* (Hector, 1870).  
 370. *Stethopterus semicinctus* (Lay & Bennett, 1839).  
 371. *Yirrkala chaselingi* Whitley, 1940.  
 372. *Calamuracna calamus* (Gunther, 1870).  
 373. *Zonopichthys marginatus* (Bleeker, 1803).  
 374. *Malvoliophis (Malvoliophis) pinguis* (Gunther, 1873).  
 375. *Malvoliophis (Cyclophichthys) cyclo-rhinus* (Fraser-Brunner, 1934).  
 376. *Chlevestes colubrius* (Boddaert, 1781).  
 377. *Chlevestes elapsoides* (Castelnaud, 1878).  
 377a. *Myrichthys maculosus* (Cuvier, 1816).  
 378. *Ophichthys episcopus* Castelnaud, 1878.  
 379. *Ophichthys derbyensis* Whitley, 1941.  
 380. *Ophichthys versicolor* (Richardson, 1848).  
 381. *Pisodonophis cancrivorus* (Richardson, 1848).  
 382. *Callochelys marmoratus* (Bleeker, 1853).  
 383. *Rataboura intermedia* (Ogilby, 1907).  
 384. *Rataboura javanica* (Kaup, 1856).  
 385. *Anarchias insuetus* Whitley, 1932.  
 386. *Notorabula callorhyncha* (Gunther, 1870).  
 387. *Fimbrinares mosaica* Whitley, 1948.  
 388. *Muraena australiae* Richardson, 1848.  
 389. *Siderea picta* (Thunberg, 1789).  
 390. *Verdithorax prasinus* (Richardson, 1848).  
 391. *Lycodontis boschii* (Bleeker, 1853).



392. *Lycodontis petelli* (Bleeker, 1856).  
 393. *Lycodontis elegantissimus* (Kaup, 1856).  
 394. *Lycodontis meleagris* (Shaw & Nodder, 1795).  
 395. *Lycodontis punctatus* (Bloch & Schneider, 1801).  
 396. *Lycodontis thyrsoides* (Richardson, 1845).  
 397. *Lycodontis flavimarginatus annasona* Whitley, 1937.  
 398. *Lycodontis longinquus* Whitley, 1948.  
 399. *Lycodontis rhodocephalus* (Bleeker, 1865).  
 400. *Lycodontis scriptus* (Bloch & Schneider, 1801).  
 401. *Lycodontis stellatus* (Lacepede, 1803).  
 402. *Lycodontis pseudothyrsoides* (Bleeker, 1852).  
 403. *Lycodontis undulatus* (Lacepede, 1803).  
 404. *Lycodontis cribroris* (Whitley, 1932).  
 405. *Lycodontis chilospilus* (Bleeker, 1865).  
 406. *Lycodontis melanospilos* (Bleeker, 1855).  
 407. *Lycodontis makassariensis* (Bleeker, 1863).  
 408. *Lycodontis margaritiphorus* (Bleeker, 1865).  
 409. *Lycodontis woodwardi* (McCulloch, 1912).  
 410. *Serranguilla prionodon* (Ogilby, 1895).  
 411. *Thaerodontis favagineus* (Bloch & Schneider, 1801).  
 412. *Evenchelys macrurus* (Bleeker, 1854).  
 413. *Echidna nebulosa* (Thunberg, 1789).  
 414. *Arndha zebra* (Shaw & Nodder, 1797).  
 415. *Leihala polyzona* (Richardson, 1845).  
 416. *Uropterygius concolor* (Ruppell, 1838).  
 417. *Uropterygius marmoratus* (Lacepede, 1803).  
 418. *Uropterygius obesus* Whitley, 1932.  
 419. *Pseudechidna brunneri* (Bleeker, 1859).  
 420. "Leptocephalus" — larvae of various eels, including *Leptocephalus cerasensis* Bleeker, 1865.  
 420a. *Leptocephalus geminus* Castle, 1964.  
 420b. *Leptocephalus trilineatus* Castle, 1964.  
 421. *Latropiscis purpurissatus* (Richardson, 1843).  
 422. *Latropiscis milesii* (Cuvier & Valenciennes, 1849).  
 423. *Harpadon translucens* Saville-Kent, 1889.  
 424. *Saurida tumbil* (Bloch, 1795).  
 425. *Saurida undosquamis* Richardson, 1844.  
 426. *Saurida gracilis* (Quoy & Gaimard, 1824).  
 427. *Saurida filamentosa* Ogilby, 1910.  
 428. *Synodus* (*Newtonscottia*) *houlti* McCulloch, 1921.  
 429. *Austrotirus similis* (McCulloch, 1921).  
 430. *Xystodus sageneus* (Waite, 1905).  
 431. *Trachinocephalus myops hypozona* (Ogilby, 1897).  
 432. *Chlorophthalmus nigripinnis* Gunther, 1878.  
 433. *Paralepis prionosa* Rofen, 1963.  
 434. *Paralepis rissoi* Bonaparte, 1841.  
 435. *Lestidium pseudosphyraenoides danae* (Ege, 1930).  
 436. *Lestidium indopacificum* Ege, 1953.  
 437. *Lestidium atlanticum* Borodin, 1928.  
 438. *Macroparalepis macrurus* Ege, 1933.  
 439. *Macroparalepis elegans* Ege, 1933.  
 440. *Collettia perspicillata* (Ogilby, 1898).  
 441. *Dasyscopelus asper* (Richardson, 1845).  
 442. *Scopelus hookeri* Whitley, 1953.  
 443. *Gonichthys barnesi* Whitley, 1943.  
 444. *Elampadena subaspera* (Gunther, 1864).  
 445. *Ctenoscopelus phengodes* (Lutken, 1892).  
 446. *Lepidophanes guntheri* (Goode & Bean, 1895).  
 447. *Serpa australis* (Taning, 1932).  
 448. *Myctophum cuvieri* (Castelnau, 1873).  
 449. *Neoscopelus bruuni* Whitley, 1931.  
 450. *Diaphana danae* Taning, 1932.  
 451. *Electrona risso salubris* Whitley, 1933.  
 452. *Electrona carlsbergi* (Taning, 1932).  
 453. *Electrona antarctica* (Gunther, 1878).  
 454. *Alepisaurus richardsonii* Bleeker, 1855.  
 455. *Notocanthus sexspinis* Richardson, 1846.  
 456. *Halosaurus pectoralis* McCulloch, 1926.  
 457. *Aulostomus chinensis waitei* Whitley, 1940.  
 458. *Fistularia immaculata* Cuvier, 1816.  
 459. *Fistularia villosa* Klunzinger, 1871.  
 460. *Macroramphosus elevatus* Waite, 1899.  
 461. *Orthichthys mollerii* (Whitley, 1930).  
 462. *Orthichthys velitaris* (Pallas, 1770).  
 463. *Centriscoops obliquus* Waite, 1911.  
 464. *Centriscoops humerosus* (Richardson, 1846).  
 465. *Notopogon lilliei* Regan, 1914.  
 466. *Notopogon endeavouri* Mohr, 1937.  
 467. *Aeoliscus strigatus* (Gunther, 1861).  
 468. *Centriscus cristatus* (De Vis, 1885).  
 469. *Centriscus scutatus* Linné, 1758.  
 470. *Solenichthys cyanopterus* (Bleeker, 1855).  
 471. *Solenichthys leptosomus* (Tanaka, 1908).  
 472. *Solenichthys raceki* Whitley, 1955.  
 473. *Tigricampus tigris* (Castelnau, 1879).  
 474. *Pugnaso curtirostris* (Castelnau, 1872).  
 475. *Pugnaso caretta* (Klunzinger, 1879).  
 476. *Filicampus superciliaris* (Gunther, 1880).  
 477. *Mitotichthys tuckeri* (Scott, 1942).  
 478. *Leptonotus semistriatus* Kaup, 1856.  
 479. *Leptonotus* (*Kaupus*) *costatus* Waite & Hale, 1921.  
 480. *Parasyngnathus altirostris* (Ogilby, 1890).  
 481. *Parasyngnathus wardi* Whitley, 1948.  
 482. *Parasyngnathus sawagei* (Whitley, 1929).  
 483. *Parasyngnathus phillipi* (Lucas, 1891).

484. *Parasyngnathus margaritifer* (Peters, 1868).
485. *Parasyngnathus poecilolaemus* (Peters, 1869).
486. *Parasyngnathus gazella* (Whitley, 1947).
487. *Parasyngnathus (Vanacampus) vercoi* (Waite & Hale, 1921).
488. *Parasyngnathus (Vanacampus) findersi* (T. D. Scott, 1957).
489. *Novacampus mollisoni* (E. O. Scott, 1955).
490. *Oxyleyana parviceps* (Ramsay & Ogilby, 1886).
491. *Maroubra perserrata* Whitley, 1948.
492. *Bhanotichthys haematopterus* (Bleeker, 1851).
493. *Halicampus grayi* Kaup, 1856.
494. *Microgathus nitidus* (Gunther, 1873).
495. *Microgathus brevirostris spinicaudatus* Ogilby, 1908.
496. *Microgathus annulatus* (Macleay, 1878).
497. *Festucalex scalaris* (Gunther, 1870).
498. *Festucalex galei* (Duncker, 1909).
499. *Festucalex cinctus* (Ramsay, 1882).
500. *Campichthys tryoni* (Ogilby, 1890).
501. *Larvicampus runa* (Whitley, 1931).
502. *Larvicampus fatiloquus* (Whitley, 1943).
503. *YoZIA bicarctata brevicauda* (Castelnaud, 1875).
504. *YoZIA campitalis* Whitley, 1950.
505. *Stipeocampus cristatus* (McCulloch & Waite, 1918).
506. *Choeroichthys serialis* (Gunther, 1884).
507. *Choeroichthys suillus* Whitley, 1951.
508. *Choeroichthys suillus malus* Whitley, 1954.
509. *Microphis stictorhynchus* (Ogilby, 1912).
510. *Doryrhamphus melanopleura* (Bleeker, 1858).
511. *Nannocampus ruber* Ramsay & Ogilby, 1886.
512. *Nannocampus subosseus* Gunther, 1870.
513. *Lissocampus caudalis* Waite & Hale, 1921.
514. *Lissocampus affinis* Whitley, 1944.
515. *Urocampus carinirostris* Castelnaud, 1872.
516. *Leptoichthys fistularius* Kaup, 1853.
517. *Hypselognathus rostratus* (Waite & Hale, 1921).
518. *Histiogamphelus maculatus* Hale, 1939.
519. *Histiogamphelus maculatus robensis* Whitley, 1948.
520. *Histiogamphelus cristatus* (Macleay, 1881).
521. *Histiogamphelus briggsii* McCulloch, 1914.
522. *Histiogamphelus briggsii orae* Whitley, 1950.
523. *Histiogamphelus meraculus* Whitley, 1948.
524. *Histiogamphelus gallinaceus* Hale, 1941.
525. *Stigmatopora argus* (Richardson, 1840).
526. *Stigmatopora unicolor* Castelnaud, 1875.
527. *Nigracus nigra* (Kaup, 1856).
528. *Syngnathoides biaculeatus* (Bloch, 1785).
529. *Solegnathus guntheri* Duncker, 1915.
530. *Solegnathus spinosissimus* Gunther, 1870.
531. *Solegnathus fasciatus* Gunther, 1880.
532. *Solegnathus robustus* McCulloch, 1911.
533. *Solegnathus (Runcinatus) dunckeri* Whitley, 1927.
534. *Hallichthys taeniophora* Gray, 1859.
535. *Phyllopteryx taeniolatus* (Lacepede, 1804).
536. *Phyllopteryx lucasi* Whitley, 1931.
537. *Phycodurus eques* (Gunther, 1865).
538. *Phycodurus glauerti* Whitley, 1939.
539. *Farlapiscis breviceps* (Peters, 1870).
540. *Hippocampus angustus* Gunther, 1870.
541. *Hippocampus whitei* Bleeker, 1855.
542. *Hippocampus tristis* Castelnaud, 1872.
543. *Hippocampus kuda* Bleeker, 1852.
544. *Hippocampus zebra* Whitley, 1964.
545. *Hippocampus planifrons* Peters, 1877.
546. *Hippohystrix spinosissimus* (Weber, 1913).
547. *Macleayina abdominalis* (Lesson, 1827).
548. *Acentronura australe* Waite & Hale, 1921.
549. *Acentronura breviperula* Fraser-Brunner & Whitley, 1949.
550. *Pegasus voltans* Linné, 1758.
551. *Eurypegasmus draconis* (Linné, 1766).
552. *Acanthopegasus lancifer* (Kaup, 1861).
553. *Scomberosx forsteri* Cuvier & Valenciennes, 1846.
554. *Strongylura incisa* (Cuvier & Valenciennes, 1846).
555. *Strongylura strongylura* (Van Hasselt, 1823).
556. *Lhotskia macleayana* (Ogilby, 1886).
557. *Djulongiis gavioloides* (Castelnaud, 1873).
558. *Djulongiis melanotus* (Bleeker, 1851).
559. *Stenocaulis krefftii* (Gunther, 1866).
560. *Tylosurus marisrubri* (Bloch & Schneider, 1801).
561. *Lewinichthys ciconia* (Richardson, 1846).
562. *Belone platyura* Bennett, 1832.
563. *Athlennes caeruleofasciatus* (Stead, 1908).
564. *Thalassosteus appendiculatus* (Klunzinger, 1871).
565. *Reporhamphus ardelio* Whitley, 1931.
566. *Reporhamphus australis* Steindachner, 1866.
567. *Reporhamphus melanochir* Cuvier & Valenciennes, 1847.
568. *Reporhamphus regularis* Gunther, 1866.
569. *Reporhamphus caudalis* Whitley, 1951.
570. *Hyporhamphus dussumieri* (Cuvier & Valenciennes, 1847).



571. *Hyporhamphus quoyi* (Cuvier & Valenciennes, 1847).
572. *Ardeaspiscis welsbyi* (Ogilby, 1903).
573. *Farhians commersonii* (Cuvier, 1829).
574. *Rhynchorhamphus georgii* (Cuvier & Valenciennes, 1847).
575. *Hemiramphus argenteus* Bennett, 1840.
576. *Hemiramphus robustus* Gunther, 1866.
577. *Hemiramphus gaimardi* Cuvier & Valenciennes, 1847.
578. *Euleptorhamphus longirostris* (Cuvier, 1829).
579. *Loligorhamphus normani* Whitley, 1931.
580. *Zenarchopterus dispar* (Cuvier & Valenciennes, 1847).
581. *Zenarchopterus buffonis* (Cuvier & Valenciennes, 1847).
582. *Zenarchopterus amblyurus* (Bleeker, 1849).
583. *Arrhamphus sclerolepis* Gunther, 1866.
584. *Ecocoetus volitans vagabundus* Whitley, 1937.
585. *Parecocoetus brachypterus* (Richardson, 1846).
586. *Cypsilurus exsiliens* (Linné, 1771).
587. *Cypsilurus heterurus* (Rafinesque, 1810).
588. *Cypsilurus arcticeps* (Gunther, 1866).
589. *Cypsilurus bahiensis* (Ranzani, 1842).
590. *Cypsilurus poecilopterus* (Cuvier & Valenciennes, 1847).
591. *Cypsilurus spilopterus* (Cuvier & Valenciennes, 1847).
592. *Cypsilurus melanocercus* (Ogilby, 1885).
593. *Eaconautes katoptron* (Bleeker, 1865).
594. *Danichthys cribrus* (Kner, 1867).
595. *Hirundichthys speculiger praecox* Whitley, 1937.
596. *Hirundichthys oxycephalus* (Bleeker, 1852).
597. *Oxyporhamphus micropterus* (Cuvier & Valenciennes, 1847).
598. *Hypoatherina uisila* (Jordan & Seale, 1906).
599. *Hypoatherina lacunosa* (Bloch & Schneider, 1801).
600. *Taeniomembras tropicalis* (Whitley, 1948).
601. *Taeniomembras hepsetoides* (Richardson, 1843).
602. *Taeniomembras elongata* (Klunzinger, 1879).
603. *Taeniomembras tamarensis* (Johnston, 1883).
604. *Atherina presbyteroides* Richardson, 1843.
605. *Allanetta punctata* (De Vis, 1885).
606. *Atherinosoma vorax* Castelnau, 1872.
607. *Atherinosoma rockinghamensis* Whitley, 1943.
608. *Atherinosoma microstoma* (Gunther, 1861).
609. *Atherinosoma microstoma lincolniensis* Whitley, 1941.
610. *Pranesella endorae* Whitley, 1934.
611. *Pranesus capricornensis* Woodland, 1961.
612. *Pranesus endrachtensis* (Quoy & Gaimard, 1825).
613. *Pranesus ogilbyi* Whitley, 1930.
614. *Atherinason dannevigii* (McCulloch, 1911).
615. *Atherinason dannevigii verae* Whitley, 1951.
616. *Craterocephalus edelensis* (Castelnau, 1873).
617. *Craterocephalus capreoli* Rendahl, 1922.
618. *Craterocephalus eyresii* (Steindachner, 1884).
619. *Craterocephalus marjoriae* Whitley, 1948.
620. *Craterocephalus worrelli* Whitley, 1948.
621. *Craterocephalus anticanus* Whitley, 1955.
622. *Craterocephalus cuneiceps* Whitley, 1944.
623. *Craterocephalus fluviatilis* McCulloch, 1913.
624. *Craterocephalus stercusmuscarum* (Gunther, 1867).
625. *Craterocephalus pauciradiatus* (Gunther, 1861).
626. *Stenatherina esox* (Klunzinger, 1872).
627. *Stenatherina honoriae* (Ogilby, 1912).
628. *Atherion maccullochi* Jordan & Hubbs, 1919.
629. *Iso rhotophilus* (Ogilby, 1895).
630. *Quirichthys stramineus* (Whitley, 1950).
631. *Pseudomugil signifer* Kner, 1866.
632. *Pseudomugil signatus* Gunther, 1867.
633. *Pseudomugil gertrudae* Weber, 1911.
634. *Pseudomugil affinis* Whitley, 1935.
635. *Rhadinocentrus ornatus* Regan, 1914.
636. *Rhadinocentrus rhombosomoides* Nichols & Raven, 1928.
637. *Melanotaenia nigrans* Richardson, 1843.
638. *Nematocentris splendida* Peters, 1867.
639. *Nematocentris fluviatilis* (Castelnau, 1878).
640. *Nematocentris australis* (Castelnau, 1875).
641. *Nematocentris maccullochi* (Ogilby, 1915).
642. *Anneris rubrostriata* (Ramsay & Ogilby, 1886).
643. *Aidaprora carteri* Whitley, 1935.
644. *Ellochelon vaigiensis* (Quoy & Gaimard, 1825).
645. *Moolgarda delicata* (Alleyne & Macleay, 1877).
646. *Moolgarda argentea* (Quoy & Gaimard, 1825).
647. *Moolgarda compressa* (Gunther, 1861).
648. *Moolgarda pura* Whitley, 1945.
649. *Moolgarda (Planiliza) ordensis* Whitley, 1945.
650. *Liza planiceps* (Cuvier & Valenciennes, 1836).
651. *Liza subviridis* (Cuvier & Valenciennes, 1836).
652. *Mugil dobula* Gunther, 1861.

653. *Mugil dussumieri* Cuvier & Valenciennes, 1836.
654. *Mugil georgii* Ogilby, 1897.
655. *Mugil cunnesius* Cuvier & Valenciennes, 1836.
656. *Mugil strongylocephalus* Richardson, 1846.
657. *Mugil australis* Steindachner, 1879.
658. *Mugil tade* Gmelin, 1789.
659. *Mugil tadopsis* Ogilby, 1908.
660. *Oxymugil acutus* (Cuvier & Valenciennes, 1836).
661. *Gracilimugil ramsayi* (Macleay, 1883).
662. *Oedalechilus kesteveni* Whitley, 1943.
663. *Oedalechilus cirrhostomus* (Bloch & Schneider, 1801).
664. *Oedalechilus papillosus* (Macleay, 1883).
665. *Crenimugil labiosus* (Cuvier & Valenciennes, 1836).
666. *Valamugil buchanani* (Bleeker, 1853).
667. *Squalomugil nasutus* (De Vis, 1883).
668. *Trachystoma petardi* (Castelnau, 1875).
669. *Myxus elongatus* Gunther, 1861.
670. *Aldrichetta forsteri* (Bloch & Schneider, 1801).
671. *Polydactylus indicus* (Shaw, 1804).
672. *Polydactylus plebeius* (Broussonet, 1782).
673. *Polydactylus sheridani* (Macleay, 1884).
674. *Polydactylus heptadactylus* (Cuvier & Valenciennes, 1829).
675. *Polydactylus specularis* (De Vis, 1883).
676. *Polydactylus macrochir* (Gunther, 1867).
677. *Polydactylus multiradiatus* (Gunther, 1860).
678. *Polynemus verekeri* Saville-Kent, 1889.
679. *Eleutheronema tetradactylus* (Shaw, 1804).
680. *Indosphyraena waitii* (Ogilby, 1908).
681. *Agrioposphyraena microps* (Marshall, 1953).
682. *Agrioposphyraena akerstromi* (Whitley, 1947).
683. *Australuzza novaehollandiae* (Gunther, 1860).
684. *Sphyraenella obtusata* (Cuvier & Valenciennes, 1829).
685. *Sphyraenella grandisquamis* (Steindachner, 1866).
686. *Sphyraenella laugsar* (Bleeker, 1854).
687. *Sphyraena forsteri* Cuvier & Valenciennes, 1829.
688. *Sphyraena jello altipinnis* Ogilby, 1910.
689. *Tetragonurus cuvieri* Risso, 1810.
690. *Centrolophus mauricus* Ogilby, 1893.
691. *Tubbia tasmanica* Whitley, 1943.
692. *Mupus imperialis* Cocco, 1833.
693. *Psenopsis humerosus* Munro, 1958.
694. *Nomeus dyscritus* Whitley, 1931.
695. *Psenes whiteleggii* Waite, 1894.
696. *Psenes hillii* Ogilby, 1915.
697. *Psenes cyanophrys* Cuvier & Valenciennes, 1833.
698. *Cubiceps baxteri* McCulloch, 1923.
699. *Seriotelella brama* (Gunther, 1860).
700. *Seriotelella maculata* (Forster, 1794).
701. *Seriotelella noel* Whitley, 1958.
702. *Hoplocoryphus physaliarum* Whitley, 1933.
703. *Hyperoglyphe porosa* (Richardson, 1845).
704. *Malacocephalus laevis* (Lowe, 1843).
705. *Nezumia nigromaculata* (McCulloch, 1907).
706. *Paramacurus australis* (Richardson, 1839).
707. *Paramacurus innotabilis* (McCulloch, 1907).
708. *Garichthys fasciatus* (Gunther, 1878).
709. *Garichthys mirus* (McCulloch, 1926).
710. *Nematonurus armatus* (Hector, 1875).
711. *Lepidorhynchus denticulatus* Richardson, 1846.
712. *Macruronus novaezelandiae* (Hector, 1871).
713. *Tripteroptychus intermedius* Whitley, 1948.
714. *Lotella callarias* Gunther, 1863.
715. *Lotella fuliginosa* Gunther, 1862.
716. *Physiculus barbatus* (Gunther, 1863).
717. *Physiculus bachus* (Bloch & Schneider, 1801).
718. *Austrophycis megalops* Ogilby, 1897.
719. *Euclichthys polynemus* McCulloch, 1926.
720. *Antimora rostrata* (Gunther, 1878).
721. *Gaidropsarus novaezelandiae* (Hector, 1874).
722. *Lepidion microcephalus* Cowper, 1956.
723. *Mora dannevigii* Whitley, 1948.
724. *Bregmaceros nectabanus* Whitley, 1941.
725. *Bregmaceros maclellandi* Thompson, 1840.
726. *Bregmaceros japonicus* Tanaka, 1908.
727. *Beryx splendens* Lowe, 1834.
728. *Beryx decadactylus* Cuvier and Valenciennes, 1829.
729. *Centroberyx lineatus* (Cuvier & Valenciennes, 1829).
730. *Centroberyx affinis* (Gunther, 1859).
731. *Centroberyx gerrardi* (Gunther, 1887).
732. *Diretmus aureus* (Campbell, 1879).
733. *Paradiretmus circularis* Whitley, 1948.
734. *Gephyroberyx darwinii* (Johnson, 1866).
735. *Optivus elongatus* (Gunther, 1859).
736. *Hoplostethus intermedius* (Hector, 1875).
737. *Hoplostethus gigas* McCulloch, 1914.
738. *Hoplostethus latus* McCulloch, 1914.
739. *Paratrachichthys trailii* (Hutton, 1875).
740. *Sorosichthys ananassa* Whitley, 1945.
741. *Trachichthys australis* Shaw & Nodder, 1799.
742. *Cleidopus gloriamaris* De Vis, 1882.
743. *Cleidopus gloriamaris occidentalis* Whitley, 1931.
744. *Scopeloberyx microlepis* (Norman, 1937).
745. *Melamphaes suborbitalis* (Gill, 1883).
746. *Sio nordenskjoeldii* (Lonnberg, 1905).



747. *Scopelogadus beanii* (Gunther, 1887).  
 748. *Holocentrus diadema* (Lacepede, 1802).  
 749. *Holocentrus cornutus* Bleeker, 1853.  
 750. *Holocentrus cornutus melanospilos* Bleeker, 1858.  
 751. *Holocentrus prasin* (Lacepede, 1802).  
 752. *Holocentrus violaceus* Bleeker, 1853.  
 753. *Holocentrus dimidicauda* Marshall, 1953.  
 754. *Sargocentron spinifer* (Bonnaterre, 1788).  
 755. *Ostichthys australis* (Castelnau, 1875).  
 756. *Neomyrpristis amaenus* Castelnau, 1873.  
 757. *Neoniphon armatus* Castelnau, 1875.  
 758. *Holotrachys oligolepis* Whitley, 1941.  
 759. *Holotrachys major* Whitley, 1950.  
 760. *Neoniphon hasta* De Vis, 1884.  
 761. *Myrpristis murdjan* (Bonnaterre, 1788).  
 762. *Cyttus australis* (Richardson, 1843).  
 763. *Cyttus maccullochi* Whitley, 1947.  
 764. *Cyttus novaezelandiae* (Arthur, 1885).  
 765. *Cyttosoma boops* Gilchrist, 1904.  
 766. *Oreosoma atlanticum waitei* Whitley, 1929.  
 767. *Allocyttus propinquus* McCulloch, 1914.  
 768. *Neocyttus gibbosus* McCulloch, 1914.  
 769. *Zeus australis* Richardson, 1845.  
 770. *Zenopsis nebulosus* (Temminck & Schlegel, 1845).  
 771. *Antigonia rhomboidca* McCulloch, 1915.  
 772. *Antigonia rubicunda* Ogilby, 1910.  
 773. *Lampris regius* (Bonnaterre, 1788).  
 774. *Velifer hypselopterus* Bleeker, 1879.  
 775. *Metavelifer multiradiatus* (Regan, 1907).  
 776. *Metavelifer multiradiatus multi-spinosus* Smith, 1951.  
 777. *Regalecus pacificus* Haast, 1878.  
 778. *Desmodema aravatae* (Clarke, 1881).  
 779. *Agrostichthys benhami* E. O. Scott, 1934.  
 780. *Lophotes guntheri* Johnston, 1883.  
 781. *Diploprion bifasciatum* Cuvier & Valenciennes, 1828.  
 782. *Percalates colonorum* (Gunther, 1863).  
 783. *Percalates colonorum novemaculeatus* (Steindachner, 1866).  
 784. *Plectroplites ambiguus* (Richardson, 1845).  
 785. *Macquaria australasica* Cuvier & Valenciennes, 1830.  
 786. *Bostockia porosa* Castelnau, 1873.  
 787. *Acanthistius serratus* Cuvier & Valenciennes, 1828.  
 788. *Centrogenys vaigiensis* (Quoy & Gaimard, 1824).  
 789. *Polyprionum (Hectoria) oxygeneios* (Bloch & Schneider, 1801).  
 790. *Plectropomus maculatus* (Bloch, 1790).  
 791. *Plectropomus variegatus* Castelnau, 1875.  
 792. *Trachypoma macracanthus* Gunther, 1859.  
 793. *Anypperodon leucogrammicus* Cuvier & Valenciennes, 1828.  
 794. *Epinephelus mysticalis* (De Vis, 1884).  
 795. *Epinephelus areolatus* (Gmelin, 1789).  
 796. *Epinephelus amblycephalus* (Bleeker, 1857).  
 797. *Epinephelus morrhua* (Cuvier & Valenciennes, 1833).  
 798. *Epinephelus summana hostiaretis* Whitley, 1954.  
 799. *Epinephelus fario* (Thunberg, 1793).  
 800. *Epinephelus viridipinnis* (De Vis, 1885).  
 801. *Epinephelus megachir* (Richardson, 1846).  
 802. *Epinephelus australis* (Castelnau, 1875).  
 803. *Epinephelus raymondi* Ogilby, 1908.  
 804. *Epinephelus gilberti* (Richardson, 1842).  
 805. *Epinephelus (Cynichthys) flavo-caeruleus* (Lacepede, 1802).  
 806. *Epinephelus hoedtii* (Bleeker, 1855).  
 807. *Epinephelus damelii* (Gunther, 1876).  
 808. *Epinephelus undulatostratus* (Peters, 1867).  
 809. *Epinephelus (Schistorus) ergastularius* Whitley, 1930.  
 810. *Epinephelus chlorostigma* (Cuvier & Valenciennes, 1828).  
 811. *Epinephelus corallicola* (Cuvier & Valenciennes, 1828).  
 812. *Epinephelus marginalis* (Bloch, 1793).  
 813. *Epinephelus homosinensis* Whitley, 1944.  
 814. *Epinephelus rankini* Whitley, 1945.  
 815. *Epinephelus spiramen* Whitley, 1945.  
 816. *Epinephelus slacksmithi* Whitley, 1959.  
 817. *Epinephelus merra* (Bloch, 1793).  
 818. *Epinephelus forsythi* Whitley, 1937.  
 819. *Epinephelus thompsoni* Whitley, 1948.  
 820. *Epinephelus (Homalagrystes) tauvina* (Bonnaterre, 1788).  
 821. *Epinephelus (Homalagrystes) malabaricus* (Bloch & Schneider, 1801).  
 822. *Epinephelus sexfasciatus* (Cuvier & Valenciennes, 1828).  
 823. *Epinephelus hovenii* (Bleeker, 1849).  
 823a. *Epinephelus tukula* Morgans, 1959.  
 824. *Promicrops lanceolatus* (Bloch, 1790).  
 825. *Altiserranus jayakari* (Boulenger, 1889).  
 826. *Altiserranus woorei* Whitley, 1951.  
 827. *Cephalopholis urodetus mars* (De Vis, 1884).  
 828. *Cephalopholis cyanostigma* (Cuvier & Valenciennes, 1828).  
 829. *Cephalopholis pachycentron* (Cuvier & Valenciennes, 1828).  
 830. *Cephalopholis nigripinnis* (Cuvier & Valenciennes, 1828).  
 831. *Cephalopholis boenack* (Bloch, 1790).  
 832. *Cephalopholis miniatus formosanus* Tanaka, 1911.  
 833. *Cephalopholis argus* (Bloch & Schneider, 1801).  
 834. *Cephalopholis coatesi* Whitley, 1937.  
 835. *Aethaloperca rogae* (Bonnaterre, 1788).

836. *Enneacetrus sonnerati* (Cuvier & Valenciennes, 1828).
837. *Enneacetrus aurantius* (Cuvier & Valenciennes, 1828).
838. *Enneacetrus leopardus* (Lacepede, 1802).
839. *Chromileptes altivelis* (Cuvier & Valenciennes, 1828).
840. *Grammistes sexlineatus* (Thunberg, 1792).
841. *Maccullochella macquariensis* (Lesson, 1828).
842. *Maccullochella macquariensis peelii* (Mitchell, 1838).
843. *Rainfordia opercularis* McCulloch, 1923.
844. *Ellerkeldia annulata* (Gunther, 1859).
845. *Ellerkeldia maccullochi* Whitley, 1929.
846. *Ellerkeldia jamesoni* (Ogilby, 1908).
847. *Hypoplectrodes nigrorubrum* (Cuvier & Valenciennes, 1828).
848. *Epinephelides armatus* (Castelnau, 1875).
849. *Othos dentex* (Cuvier & Valenciennes, 1828).
850. *Fraudella carassiops* Whitley, 1935.
851. *Caprodon longimanus* (Gunther, 1859).
852. *Caesioperca lepidoptera* (Bloch & Schneider, 1801).
853. *Caesioperca rasor* (Richardson, 1839).
854. *Anthias pleurotaenia* Bleeker, 1857.
855. *Anthias pulchellus* Waite, 1899.
856. *Variola louti* (Bonnaterre, 1788).
857. *Lepidoperca tasmanica* Norman, 1937.
858. *Lepidoperca occidentalis* Whitley, 1951.
859. *Callanthias allporti* Gunther, 1876.
860. *Nannoperca australis* Gunther, 1861.
861. *Nannoperca ozleyana* Whitley, 1940.
862. *Nannoperca obscura* (Klunzinger, 1872).
863. *Edelia vittata* Castelnau, 1873.
864. *Oustonina maccullochi* Whitley, 1934.
865. *Klunzingerina novaehollandiae* (Steindachner, 1879).
866. *Pseudochromis (Assiculus) punctatus* (Richardson, 1846).
867. *Pseudochromis cyaneotaenia* Bleeker, 1857.
868. *Pseudochromis fuscus* Muller & Troschel, 1849.
869. *Pseudochromis maccullochi perpulcher* Whitley, 1959.
870. *Leptochromis tapeinosoma* (Bleeker, 1853).
871. *Devisina aurea* (Seale, 1909).
872. *Devisina wilsoni* (Whitley, 1929).
873. *Devisina quinquentata* (McCulloch, 1926).
874. *Stigmatonotus australis* Peters, 1877.
875. *Dampiera ignita* T. Scott, 1959.
876. *Dampiera lineata* Castelnau, 1875.
877. *Ogilbyina longipinnis* (Ogilby, 1908).
878. *Pelates quadrilineatus* (Bloch, 1790).
879. *Pelates sexlineatus* (Quoy & Gaimard, 1824).
880. *Leiopotherapon (Archerichthys) suavis* Whitley, 1948.
881. *Eutherapon theraps* (Cuvier & Valenciennes, 1829).
882. *Terapon servus* (Bloch, 1790).
883. *Terapon (Austisthes) puta* Cuvier & Valenciennes, 1829.
884. *Amniataba percoides* (Gunther, 1864).
885. *Amniataba percoides burnettensis* Whitley, 1943.
886. *Amniataba percoides yorkensis* (Nichols, 1949).
887. *Amphitherapon candavittatus* (Richardson, 1845).
888. *Madigania unicolor* (Gunther, 1859).
889. *Bidyanus bidyanus* (Mitchell, 1838).
890. *Pelsartia humeralis* (Ogilby, 1899).
891. *Mesopristes argenteus* (Cuvier & Valenciennes, 1829).
892. *Mesopristes aheneus* (Mees, 1963).
893. *Mesopristes alligatoris* (Rendahl, 1922).
894. *Hephaestus carbo* (Ogilby & McCulloch, 1916).
895. *Hephaestus bancrofti* (Ogilby & McCulloch, 1916).
896. *Hephaestus fuliginosus* (Macleay, 1883).
897. *Hephaestus welchi* (McCulloch & Waite, 1917).
898. *Papuservus trimaculatus* (Macleay, 1883).
899. *Scortum hillii* (Castelnau, 1878).
900. *Scortum parviceps* (Macleay, 1883).
901. *Scortum barcoo* (McCulloch & Waite, 1917).
902. *Scortum ogilbyi* Whitley, 1951.
903. *Pingalla gilberti* Whitley, 1955.
904. *Helotes sexlineatus* (Quoy & Gaimard, 1825).
905. *Helotes profundior* De Vis, 1884.
906. *Helotes scotus* Haacke, 1885.
907. *Assessor macneilli* Whitley, 1935.
908. *Paraplesiops bleekeri* (Gunther, 1861).
909. *Paraplesiops gigas* (Steindachner, 1884).
910. *Paraplesiops meleagris* (Peters, 1870).
911. *Paraplesiops jolliffei* Ogilby, 1916.
912. *Paraplesiops (Liopelichthys) poweri* Ogilby, 1908.
913. *Trachinops taeniatus* Gunther, 1861.
914. *Trachinops caudimaculatus* McCoy, 1890.
915. *Pseudoplesiops typus* Bleeker, 1858.
916. *Plesiops nigricans* (Ruppell, 1828).
917. *Plesiops melas* Bleeker, 1849.
918. *Belonepterygion fasciolatum* (Ogilby, 1889).
919. *Dules rupestris haswelli* (Macleay, 1881).
920. *Herops munda* (De Vis, 1884).
921. *Moronopsis taeniurus* (Cuvier & Valenciennes, 1829).
922. *Nannatherina balstoni* Regan, 1906.
923. *Priacanthus macracanthus* (Cuvier & Valenciennes, 1829).
924. *Priacanthus tayenus* Richardson, 1846.
925. *Priacanthus cruentatus* (Lacepede, 1802).
926. *Cookeolus velabundus* (McCulloch, 1915).
927. *Perca fluviatilis* Linné, 1758. Introduced.



928. *Kurandapogon blanchardi* Whitley, 1939.
929. *Aspiscis savayensis* (Gunther, 1871).
930. *Apogon cardinalis* (Seale, 1909).
931. *Apogon margaritophorus* Bleeker 1854.
932. *Apogon nigrocinctus* (Radcliffe, 1912).
933. *Apogon chrysurus* Ogilby, 1889.
934. *Apogon doryssa* Jordan & Seale, 1906.
935. *Apogon trimaculatus* Cuvier & Valenciennes, 1828.
936. *Apogon simplex* De Vis, 1884.
937. *Apogon rudis* De Vis, 1884.
938. *Apogon australis* Steindachner, 1867.
939. *Apogon atripes* (Ogilby, 1911).
940. *Apogon aureus* (Lacepede, 1802).
941. *Apogon ruppellii* Gunther, 1859.
942. *Lovamia fasciata* (White, 1790).
943. *Lovamia cookii* (Macleay, 1881).
944. *Lovamia novemfasciata* (Cuvier & Valenciennes, 1828).
945. *Lovamia aroubiensis* (Jacquinot & Guichenot, 1853).
946. *Lovamia endekataenia* (Bleeker, 1852).
947. *Lovamia monogramma* (Gunther, 1880).
948. *Lovamia septemstriata* (Gunther, 1880).
949. *Lovamia aterrima* (Gunther, 1867).
950. *Jaydia ellioti* (Day, 1876).
951. *Vincentia novaeollandiae* (Valenciennes, 1832).
952. *Yarica hyalosoma* (Bleeker, 1852).
953. *Pristiapogon darnleyensis* (Alleyne & Macleay, 1877).
954. *Pristiapogon fraenatus* Valenciennes, 1832.
955. *Pristiapogon victoriae* (Gunther, 1859).
956. *Neamia octospina* Radcliffe, 1912.
957. *Nectamia fusca* (Quoy & Gaimard, 1825).
958. *Zoramia leptacanthus* (Bleeker, 1851).
959. *Foa vaiulae* Jordan & Seale, 1906.
960. *Foa fo* Jordan & Seale, 1906.
961. *Fowleria aurita* (Cuvier & Valenciennes, 1831).
962. *Fodifoa guttulata* (Alleyne & Macleay, 1877).
963. *Fodifoa fistulosa* (Weber, 1909).
964. *Apogonichthys coggeri* Whitley, 1964.
965. *Apogonichthys nebulosus* Ogilby, 1908.
966. *Apogonichthys isostigma* Jordan & Seale, 1906.
967. *Apogonichthys longicauda* De Vis, 1884.
968. *Apogonichthys ocellatus* (Weber, 1913).
969. *Apogonichthys ramsayi* (Fowler, 1908).
970. *Apogonichthys poecilopterus* (Cuvier & Valenciennes, 1828).
971. *Apogonichthys ahimsa* Whitley, 1959.
972. *Adenapogon roseigaster* (Ogilby, 1886).
973. *Adenapogon (Scopelapogon) cephalotes* (Castelnau, 1875).
974. *Siphamia cuneiceps* Whitley, 1941.
975. *Siphamia zaribae* Whitley, 1959.
976. *Glossamia aprion* (Richardson, 1842).
977. *Glossamia gillii* (Steindachner, 1867).
978. *Archamia melasma* Lachner & Taylor, 1960.
979. *Scepterias lenimen* Whitley, 1935.
980. *Paramia quinquelineata* (Cuvier & Valenciennes, 1828).
981. *Cheilodipterus macrodon* (Lacepede, 1802).
982. *Dinolestes lewini* (Griffith, 1834).
983. *Apogonops anomalus* Ogilby, 1896.
984. *Gymnapogon annonus* (Whitley, 1936).
985. *Sillago schomburgkii* Peters, 1865.
986. *Sillago maculata* (Quoy & Gaimard, 1824).
987. *Sillago bassensis* (Cuvier & Valenciennes, 1829).
988. *Sillago robusta* Stead, 1908.
989. *Sillago ciliata* Cuvier & Valenciennes, 1829.
990. *Sillago sihama* (Bonnaterre, 1788).
991. *Sillago analis* Whitley, 1943.
992. *Sillaginodes punctatus* (Cuvier & Valenciennes, 1829).
993. *Malacanthus hoedti* Bleeker, 1859.
994. *Lactarius lactarius* (Bloch & Schneider, 1801).
995. *Pomatomus pedica* Whitley, 1931.
996. *Rachycentron pondicerianum* (Cuvier & Valenciennes, 1832).
997. *Scomberoides sanctipetri* (Cuvier & Valenciennes, 1832).
998. *Scomberoides tolooparah* (Ruppell, 1829).
999. *Scomberoides toloo* (Cuvier & Valenciennes, 1832).
1000. *Chorinemus lysan* (Bonnaterre, 1788).
1001. *Chorinemus tol* Cuvier & Valenciennes, 1831.
1002. *Eleria tala* (Cuvier & Valenciennes, 1832).
1003. *Naucrates angeli* Whitley, 1931.
1004. *Regificola grandis* (Castelnau, 1872).
1005. *Regificola simplex* (Ramsay & Ogilby, 1886).
1006. *Naucratopsis hippos* Gunther, 1876.
1007. *Naucratopsis excusabilis* McCulloch, 1929.
1008. *Zonichthys nigrofasciatus* (Ruppell, 1829).
1009. *Elagatis bipinnulatus* (Quoy & Gaimard, 1825).
1010. *Megalaspis cordyla* (Linné, 1758).
1011. *Decapterus leptosomus* Ogilby, 1898.
1012. *Decapterus macrosoma* Bleeker, 1851.
1013. *Decapterus russelli* (Ruppell, 1831).
1014. *Trachurus mcullochii* Nichols, 1921.
1015. *Trachurus novaezelandiae* Richardson, 1843.
1016. *Alepes mate* (Cuvier & Valenciennes, 1833).
1017. *Alepes kalla queenlandiae* (De Vis, 1884).
1018. *Gnathanodon speciosus* (Bonnaterre, 1788).
1019. *Caranx bucculentus* Alleyne & Macleay, 1877.
1020. *Caranx melampygus* Cuvier & Valenciennes, 1833.
1021. *Caranx chrysophrys* Cuvier & Valenciennes, 1833.

1022. *Caranx ignobilis* (Bonnaterre, 1788).  
 1023. *Caranx malabaricus* Bloch & Schneider, 1801.  
 1024. *Caranx humerosus* McCulloch, 1915.  
 1025. *Caranx sexfasciatus* Quoy & Gaimard, 1825.  
 1026. *Caranx forsteri* Cuvier & Valenciennes, 1833.  
 1027. *Caranx papuensis* Alleyne & Macleay, 1877.  
 1028. *Citula aurochs* (Ogilby, 1915).  
 1029. *Citula oblonga* (Cuvier & Valenciennes, 1833).  
 1030. *Citula diversa* Whitley, 1940.  
 1031. *Pantolabus parasitus* (Garman, 1903).  
 1032. *Uraspis uraspis* (Gunther, 1860).  
 1033. *Ferdauia jordani* (Nichols, 1922).  
 1034. *Ferdauia claeszooni* Whitley, 1947.  
 1035. *Ferdauia claeszooni prestonensis* Whitley, 1947.  
 1036. *Ferdauia lindemanensis* Whitley, 1951.  
 1037. *Carangoides gymnostethoides* Bleeker, 1851.  
 1038. *Usacaranx platessa* (Cuvier & Valenciennes, 1833).  
 1039. *Usacaranx georgianus* (Cuvier & Valenciennes, 1833).  
 1040. *Usacaranx nobilis* (Macleay, 1881).  
 1041. *Selaroides leptolepis* (Cuvier & Valenciennes, 1833).  
 1042. *Olistus hedlandensis* Whitley, 1934.  
 1043. *Absalom radiatus* (Macleay, 1881).  
 1044. *Turrum emburyi* Whitley, 1932.  
 1045. *Ulua mandibularis* (Macleay, 1882).  
 1046. *Atule affinis* (Ruppell, 1836).  
 1047. *Selar malam* Bleeker, 1851).  
 1048. *Selar boops* (Cuvier & Valenciennes, 1833).  
 1049. *Selar crumenophthalmus* (Bloch, 1793).  
 1050. *Alectis indica* (Ruppell, 1831).  
 1051. *Alectis ciliaris* (Bloch, 1787).  
 1052. *Caesiomorus botla* (Shaw, 1803).  
 1053. *Caesiomorus baillonii* (Lacepede, 1802).  
 1054. *Trachinotus blochi* (Lacepede, 1802).  
 1055. *Trachinotus anak* Ogilby, 1909.  
 1056. *Parastromateus niger* (Bloch, 1795).  
 1057. *Menc maculata* (Bloch & Schneider, 1801).  
 1058. *Pteraclis velifer australiae* Whitley, 1935.  
 1059. *Lepidotus squamosus* (Hutton, 1876).  
 1060. *Taractes miltonis* Whitley, 1938.  
 1061. *Coryphaena hippurus* Linné, 1758.  
 1062. *Ambassis niops* Gunther, 1871.  
 1063. *Ambassis commersoni papuensis* Alleyne & Macleay, 1877.  
 1064. *Ambassis ambassis* (Lacepede, 1802).  
 1065. *Ambassis nigripinnis* (De Vis, 1884).  
 1066. *Austrochanda pallida* (De Vis, 1884).  
 1067. *Austrochanda macleayi* (Castelnau, 1878).  
 1068. *Blandowskiella agassizii* (Steindachner, 1867).  
 1069. *Blandowskiella agrammus* (Gunther, 1867).  
 1070. *Blandowskiella reticulata* (Weber, 1913).  
 1071. *Blandowskiella castelnaui* (Macleay, 1881).  
 1072. *Velambassis jacksoniensis* (Macleay, 1881).  
 1073. *Acanthopercu gulliveri* Castelnau, 1878.  
 1074. *Priopis gymnocephalus* (Lacepede, 1802).  
 1075. *Priopidichthys marianus* (Gunther, 1880).  
 1076. *Priopidichthys dussumieri telkara* (Whitley, 1935).  
 1077. *Konopickia mulleri* (Klunzinger, 1879).  
 1078. *Denariusus bandata* Whitley, 1948.  
 1079. *Glaucosoma scapulare* Macleay, 1881.  
 1080. *Glaucosoma hebraicum* Richardson, 1845.  
 1081. *Glaucosoma magnificum* (Ogilby, 1915).  
 1082. *Lates calcarifer* (Bloch, 1790).  
 1083. *Psammodon waigiensis* (Cuvier & Valenciennes, 1828).  
 1084. *Hypopterus macropterus* (Gunther, 1859).  
 1085. *Arripis trutta* (Bloch & Schneider, 1801).  
 1086. *Arripis trutta esper* Whitley, 1951.  
 1087. *Arripis georgianus* (Cuvier & Valenciennes, 1831).  
 1088. *Emmelichthys nitidus* Richardson, 1845.  
 1089. *Plagiogencion rubiginosus* (Hutton, 1876).  
 1090. *Plagiogeneion macrolepis* McCulloch, 1914.  
 1091. *Symphorus nematophorus* (Bleeker, 1860).  
 1092. *Paracaesio pedleyi* McCulloch & Waite, 1916.  
 1093. *Caesiocorpius theagenes* Whitley, 1945.  
 1094. *Caesio digramma* Bleeker, 1865.  
 1095. *Caesio lunaris* Cuvier & Valenciennes, 1830.  
 1096. *Caesio caeruleaureus* Lacepede, 1802.  
 1097. *Caesio erythrogaster* Cuvier & Valenciennes, 1830.  
 1098. *Caesio chrysozonus translimitanus* Whitley, 1933.  
 1099. *Aprion virescens placidus* Whitley, 1937.  
 1100. *Aprion microlepis* Bleeker, 1873.  
 1101. *Etelis carbunculus* Cuvier & Valenciennes, 1828.  
 1102. *Aphareus rutilans* Cuvier & Valenciennes, 1830.  
 1103. *Lutjanus coatesi* Whitley, 1934.  
 1104. *Lutjanus argentimaculatus* (Bonnaterre, 1788).  
 1105. *Lutjanus russellii* (Bleeker, 1849).  
 1106. *Lutjanus sanguineus* (Cuvier & Valenciennes, 1828).  
 1107. *Lutjanus fulviflamma* (Bonnaterre, 1788).  
 1108. *Lutjanus malabaricus* (Bloch & Schneider, 1801).  
 1109. *Lutjanus rivulatus* (Cuvier & Valenciennes, 1828).  
 1110. *Lutjanus nigricauda* (De Vis, 1884).  
 1111. *Lutjanus (Evoptites) kasmira* Bonnaterre, 1788.



1112. *Lutjanus macleayanus* (Ramsay, 1883).
1113. *Lutjanus castelnaui* Whitley, 1928.
1114. *Lutjanus longmani* Whitley, 1937.
1115. *Lutjanus janthinuropterus* (Bleeker, 1852).
1116. *Lutjanus amabilis* (De Vis, 1885).
1117. *Lutjanus notatus* (Cuvier & Valenciennes, 1828).
1118. *Lutjanus notatus sublineatus* (De Vis, 1884).
1119. *Lutjanus (Raizero) johnii* (Bloch, 1792).
1120. *Lutjanus gibbus* (Bonnaterre, 1788).
1121. *Lutjanus chrysotaenia* (Bleeker, 1851).
1122. *Lutjanus vitta* (Quoy & Gaimard, 1824).
1123. *Lutjanus carponotatus* (Richardson, 1842).
1124. *Lutjanus vaigiensis* (Quoy & Gaimard, 1824).
1125. *Lutjanus superbus* (Castelnau, 1878).
1126. *Diacope sebae* (Cuvier, 1816).
1127. *Loxolutjanus erythropterus* (Bloch, 1790).
1128. *Neomesoprion unicolor* Castelnau, 1875.
1129. *Lunicauda emeryi* (Richardson, 1843).
1130. *Nemipterus theodori* Ogilby, 1916.
1131. *Nemipterus upeneoides* (Bleeker, 1852).
1132. *Nemipterus samsonensis* T. D. Scott, 1959.
1133. *Nemipterus aurifilum* (Ogilby, 1910).
1134. *Nemipterus robustus* Ogilby, 1916.
1135. *Nemipterus hexodon* (Quoy & Gaimard, 1824).
1136. *Nemipterus sundanensis* (Bleeker, 1873).
1137. *Nemipterus tolu* (Cuvier & Valenciennes, 1830).
1138. *Scolopsis plebaei* De Vis, 1884.
1139. *Scolopsis margaritifera* (Cuvier & Valenciennes, 1830).
1140. *Scolopsis longulus* Richardson, 1842.
1141. *Scolopsis bilineatus* (Bloch, 1793).
1142. *Scolopsis cancellatus* (Cuvier & Valenciennes, 1830).
1143. *Scolopsis personatus* (Cuvier & Valenciennes, 1830).
1144. *Scolopsis specularis* De Vis, 1882.
1145. *Scolopsis affinis* Peters, 1877.
1146. *Scolopsis bimaculatus* Ruppell, 1828.
1147. *Scolopsis regina* Whitley, 1937.
1148. *Lobotes surinamensis* (Bloch, 1790).
1149. *Gazza minuta* (Bloch, 1797).
1150. *Equula equula* (Bonnaterre, 1788).
1151. *Equulites novaehollandiae* (Steindachner, 1879).
1152. *Equulites hastatus* (Ogilby, 1884).
1153. *Equulites moretoniensis* (Ogilby, 1912).
1154. *Equulites bindus* (Cuvier & Valenciennes, 1835).
1155. *Aurigequula longispinis* (Cuvier & Valenciennes, 1835).
1156. *Secutor profundus* (De Vis, 1884).
1157. *Eubleekeria ovalis* (De Vis, 1884).
1158. *Eubleekeria (Nuchequula) nuchalis* (Temminck & Schlegel, 1845).
1159. *Pentaprion longimanus* (Cantor, 1850).
1160. *Gerres argyreus* (Bloch & Schneider, 1801).
1161. *Gerres longicaudus* Alleyne & Macleay, 1877.
1162. *Gerres oblongus carinatus* Alleyne & Macleay, 1877.
1163. *Gerres subfasciatus* Cuvier & Valenciennes, 1830.
1164. *Gerres australis* Castelnau, 1875.
1165. *Gerres splendens* De Vis, 1884.
1166. *Gerres philippinus* Gunther, 1862.
1167. *Parochus abbreviatus* (Bleeker, 1850).
1168. *Parochus cheverti* (Alleyne & Macleay, 1877).
1169. *Victor filamentosus* (Cuvier, 1829).
1170. *Paraquula melbournensis* (Castelnau, 1872).
1171. *Gerreomorpha rostrata* Alleyne & Macleay, 1877.
1172. *Plectorhinchus schotaf* (Bloch & Schneider, 1801).
1173. *Plectorhinchus chaetodonoides* (Lacepede, 1802).
1174. *Plectorhinchus ordinalis* T. D. Scott, 1959.
1175. *Plectorhinchus sordidus* (Klunzinger, 1870).
1176. *Plectorhinchus polytaenia* (Bleeker, 1852).
1177. *Plectorhinchus goldmanni multivittatus* Macleay, 1878.
1178. *Plectorhinchus roughleyi* Whitley, 1930.
1179. *Plectorhinchus nitidus* (Gunther, 1859).
1180. *Plectorhinchus punctatissimus* (Playfair, 1868).
1181. *Plectorhinchus chrysotaenia* (Bleeker, 1855).
1182. *Plectorhinchus celebicus* Bleeker, 1873.
1183. *Spilotichthys pictus* (Thunberg, 1787).
1184. *Erelatichthys niger* (Cuvier & Valenciennes, 1830).
1185. *Pomadasys hasta* (Bloch, 1790).
1186. *Pomadasys maculatum* (Bloch, 1793).
1187. *Pomadasys commersonnii* (Lacepede, 1802).
1188. *Pomadasys argyreum* (Cuvier & Valenciennes, 1833).
1189. *Pomadasys (Pristipomus) auritum* (Cuvier & Valenciennes, 1830).
1190. *Sciaena antarctica* Castelnau, 1872.
1191. *Sciaena antarctica rex* Whitley, 1945.
1192. *Sciaena albida* Cuvier & Valenciennes, 1830.
1193. *Johnius soldado mulleri* (Steindachner, 1879).
1194. *Johnius australis* (Gunther, 1880).
1195. *Johnius carutta* Bloch, 1793.
1196. *Johnius novaehollandiae* (Steindachner, 1866).
1197. *Dendrophysa dussumieri* (Cuvier & Valenciennes, 1833).
1198. *Pseudosciaena diacanthus* (Lacepede, 1802).
1199. *Zeluco atelodus* (Gunther, 1867).

1200. *Otolithes argenteus* Cuvier & Valenciennes, 1830.
1201. *Mulloidichthys auriflamma* (Bonnaterre, 1788).
1202. *Mulloidichthys samoensis armatus* De Vis, 1884.
1203. *Pseudupeneus rubriniger* (De Vis, 1884).
1204. *Pseudupeneus* (*Hogbinia*) *barberinus* (Lacepede, 1802).
1205. *Caprupeneus jeffi* (Ogilby, 1908).
1206. *Barbupeneus signatus* (Gunther, 1867).
1207. *Parupeneus sufflavus* Whitley, 1941.
1208. *Parupeneus luteus* (Cuvier & Valenciennes, 1831).
1209. *Parupeneus indicus* (Shaw, 1803).
1210. *Upeneus vittatus* (Bonnaterre, 1788).
1211. *Upeneus sundaicus* Bleeker, 1855.
1212. *Upeneus sulphureus* Cuvier & Valenciennes, 1829.
1213. *Upeneus roseus* (Castelnau, 1875).
1214. *Upeneus malabaricus* Cuvier & Valenciennes, 1829.
1215. *Upeneus taeniopterus* Cuvier & Valenciennes, 1829.
1216. *Pennon flifer* (Ogilby, 1910).
1217. *Pennon armatoides* Whitley, 1955.
1218. *Upeneichthys porosus* (Cuvier & Valenciennes, 1829).
1219. *Upeneichthys lineatus* (Bloch & Schneider, 1801).
1220. *Monotaxis affinis* Whitley, 1943.
1221. *Monotaxis grandoculis* (Bonnaterre, 1788).
1222. *Lethrinella miniata* (Bloch & Schneider, 1801).
1223. *Lethrinichthys nematacanthus* (Bleeker, 1854).
1224. *Lethrinus imperialis* De Vis, 1884.
1225. *Lethrinus chrysostomus* Richardson, 1848.
1226. *Lethrinus glyphodon* Gunther, 1859.
1227. *Lethrinus fusciceps* Macleay, 1878.
1228. *Lethrinus kallopterus* Bleeker, 1856.
1229. *Lethrinus rhodopterus* Bleeker, 1852.
1230. *Lethrinus reticulatus* Cuvier & Valenciennes, 1830.
1231. *Lethrinus nebulosus* (Bonnaterre, 1788).
1232. *Lethrinus perselectus* Whitley, 1933.
1233. *Lethrinus fletus* Whitley, 1943.
1234. *Lethrinus laticaudus* Alleyne & Macleay, 1877.
1235. *Lethrinus punctulatus* Macleay, 1878.
1236. *Lethrinus harak papuensis* Alleyne & Macleay, 1877.
1237. *Lethrinus fasciatus* Cuvier & Valenciennes, 1830.
1238. *Lethrinus variegatus* Cuvier & Valenciennes, 1830.
1239. *Lethrinus hypslopterus* Bleeker, 1873.
1240. *Lethrinus viridis* Whitley, 1932.
1241. *Lethrinus mahsena* (Bonnaterre, 1788).
1242. *Lethrinus nebulosus devisianus* Whitley, 1929.
1243. *Lethrinus cinnabarinus* Richardson, 1843.
1244. *Lethrinus cyanoxanthus* Richardson, 1843.
1245. *Lethrinus mahsenoides* Cuvier & Valenciennes, 1830.
1246. *Neolethrinus similis* Castelnau, 1875.
1247. *Scaevius milii* (Bory, 1823).
1248. *Pentapodus microdon* (Bleeker, 1853).
1249. *Pentapodus setosus* (Cuvier & Valenciennes, 1830).
1250. *Pentapodus dubius* (Bory, 1823).
1251. *Allotainus spariformis* (Ogilby, 1910).
1252. *Chrysophrys unicolor* Quoy & Gaimard, 1824.
1253. *Chrysophrys guttulatus* (Cuvier & Valenciennes, 1830).
1254. *Argyrops spinifer* (Bonnaterre, 1788).
1255. *Rhabdosargus sarba tarwhine* Whitley, 1931.
1256. *Acanthopagrus australis* (Owen, 1853).
1257. *Acanthopagrus palmaris* (Whitley, 1935).
1258. *Acanthopagrus berda* (Gmelin, 1789).
1259. *Acanthopagrus butcheri* (Munro, 1949).
1260. *Acanthopagrus latus* (Houttuyn, 1782).
1261. *Paradentex bitorquatus* (Cockerell, 1916).
1262. *Paradentex marshalli* Whitley, 1936.
1263. *Monodactylus argenteus* (Linné, 1758).
1264. *Branchiostegus wardi* Whitley, 1932.
1265. *Schuettea scalaripinnis* Steindachner, 1866.
1266. *Schuettea woodwardi* (Waite, 1905).
1267. *Pempheris compressa* (White, 1790).
1268. *Pempheris klunzingeri* McCulloch, 1911.
1269. *Liopempheris multiradiata* (Klunzinger, 1879).
1270. *Liopempheris affinis* (McCulloch, 1911).
1271. *Parapriacanthus elongatus* (McCulloch, 1911).
1272. *Parapriacanthus unvini* (Ogilby, 1889).
1273. *Leptobrama muelleri* Steindachner, 1879.
1274. *Toxotes dorsalis* Whitley, 1950.
1275. *Toxotes carpentariensis* Castelnau, 1878.
1276. *Toxotes jaculator* (Bonnaterre, 1788).
1277. *Toxotes ulysses* Whitley, 1950.
1278. *Protoxotes lorentzi* (Weber, 1911).
1279. *Kurtus gulliveri* Castelnau, 1878.
1280. *Atypichthys strigatus* (Gunther, 1860).
1281. *Atypichthys mado* Whitley, 1931.
1282. *Scorpius lineolatus* Kner, 1865.
1283. *Scorpius georgianus* Cuvier & Valenciennes, 1832.
1284. *Scorpius aequipinnis* Richardson, 1848.
1285. *Scorpius violaceus* (Hutton, 1873).
1286. *Scorpius oblungus* Canestrini, 1869.
1287. *Neatypus obliquus* Waite, 1905.
1288. *Microcanthus vittatus* (Castelnau, 1873).
1289. *Microcanthus joyceae* Whitley, 1931.
1290. *Segutilum klunzingeri* Whitley, 1931.
1291. *Segutilum cornelli* Whitley, 1944.



1292. *Segutilum sydneyanum* (Gunther, 1886).
1293. *Opisthistius squamosus* (Alleyne & Macleay, 1877).
1294. *Kyphosus vaigiensis* (Quoy & Gaimard, 1825).
1295. *Leptokyphosus gibsoni* (Ogilby, 1912).
1296. *Girella tricuspidata* (Quoy & Gaimard, 1824).
1297. *Iredalella cyanea* (Macleay, 1881).
1298. *Girellipiscis elevatus* (Macleay, 1881).
1299. *Tephraeops tephraeops* (Richardson, 1846).
1300. *Melambaphes zebra* (Richardson, 1846).
1301. *Selenotoca multifasciata* (Richardson, 1846).
1302. *Selenotoca altermans* (Castelnau, 1878).
1303. *Scatophagus argus* (Linné, 1766).
1304. *Scatophagus ornatus* Cuvier & Valenciennes, 1831.
1305. *Platax pinnatus* (Linné, 1758).
1306. *Platax batavianus* Cuvier & Valenciennes, 1831.
1307. *Platax orbicularis* (Bonnaterre, 1788).
1308. *Zabidius novemaculeatus* (McCulloch, 1916).
1309. *Drepanichthys punctatus* (Linné, 1758).
1310. *Chaetodon semeion* Bleeker, 1855.
1311. *Chaetodon assarius* Waite, 1905.
1312. *Chaetodon aureofasciatus* Macleay, 1878.
1313. *Chaetodon setifer* Bloch, 1795.
1314. *Chaetodon aphrodite* Ogilby, 1889.
1315. *Chaetodon citrinellus nigripes* De Vis, 1884.
1316. *Chaetodon lunula* (Lacepede, 1802).
1317. *Chaetodon rainfordi* McCulloch, 1923.
1318. *Chaetodon aurora* De Vis, 1884.
1319. *Chaetodon guntheri* Ahl, 1923.
1320. *Chaetodon vitulus* Whitley, 1957.
1321. *Chaetodon germanus* De Vis, 1884.
1322. *Chaetodon flavirostris* Gunther, 1873.
1323. *Chaetodon octofasciatus* Bloch, 1787.
1324. *Chaetodon kleinii* Bloch, 1790.
1325. *Chaetodon vagabundus* Linné, 1758.
1326. *Chaetodon melannotus* Bloch & Schneider, 1801.
1327. *Chaetodon (Rabdophorus) ephippium* Cuvier & Valenciennes, 1831.
1328. *Chaetodon (Rabdophorus) speculum* Cuvier & Valenciennes, 1831.
1329. *Chaetodon (Rabdophorus) trifasciatus* Park, 1797.
1330. *Chaetodon (Rabdophorus) bennetti* (Cuvier & Valenciennes, 1831).
1331. *Anisochaetodon lineolatus* (Cuvier & Valenciennes, 1831).
1332. *Gouochaetodon triangulus* (Cuvier & Valenciennes, 1831).
1333. *Megaprotodon strigangulus* (Gmelin, 1789).
1334. *Megaprotodon maculiceps* Ogilby, 1910.
1335. *Tetrachaetodon plebeius* (Cuvier & Valenciennes, 1831).
1336. *Coradion altivelis* McCulloch, 1916.
1337. *Coradion chrysozonus* (Cuvier & Valenciennes, 1831).
1338. *Parachaetodon ocellatus* (Cuvier & Valenciennes, 1831).
1339. *Parachaetodon townleyi* (De Vis, 1884).
1340. *Vinculum sexfasciatum* (Richardson, 1842).
1341. *Vinculum ocellipinnis* (Macleay, 1878).
1342. *Vinculum kershawi* Whitley, 1931.
1343. *Chelmon rostratus mulleri* Klunzinger, 1879.
1344. *Chelmon rostratus marginalis* Richardson, 1842.
1345. *Forcipiger lol* (Montrouzier, 1856).
1346. *Chelmonops truncatus* (Kner, 1859).
1347. *Heniochus acuminatus* (Linné, 1758).
1348. *Heniochus varius* (Cuvier & Valenciennes, 1831).
1349. *Heniochus permutatus* Cuvier & Valenciennes, 1831).
1350. *Euxiphops sexstriatus* (Cuvier & Valenciennes, 1831).
1351. *Centropyge bicolor* (Bloch, 1787).
1352. *Centropyge nox* (Bleeker, 1853).
1353. *Centropyge vroliki* (Bleeker, 1853).
1354. *Holacanthus flavissimus* Cuvier & Valenciennes, 1831.
1355. *Holacanthus imperator* (Bloch, 1787).
1356. *Holacanthus tricolor* (Bloch, 1795).
1357. *Pygopites diacanthus* (Boddaert, 1772).
1358. *Pomacanthops semicirculatus* (Cuvier & Valenciennes, 1831).
1359. *Chaetodontoplus melanosoma* (Bleeker, 1853).
1360. *Chaetodontoplus duboulayi* (Gunther, 1867).
1361. *Chaetodontoplus personifer* (McCulloch, 1914).
1362. *Chaetodontoplus conspicillatus* (Waite, 1900).
1363. *Chaetodontoplus ballinae* Whitley, 1959.
1364. *Enoplosus armatus* (White, 1790).
1365. *Paristiopterus labiosus* (Gunther, 1871).
1366. *Paristiopterus (Glauertichthys) galipavo* Whitley, 1944.
1367. *Zanclistius elevatus* (Ramsay & Ogilby, 1888).
1368. *Pentaceroopsis recurvirostris* (Richardson, 1845).
1369. *Undecimus hendecacanthus* (McCulloch, 1915).
1370. *Ostorhinchus couwaii* (Richardson, 1840).
1371. *Cepola australis* Ogilby, 1899.
1372. *Acanthocephala abbreviata* (Cuvier & Valenciennes, 1835).
1373. *Cirrhichthys aprinus* (Cuvier & Valenciennes, 1829).
1374. *Neocirrhites armatus* Castelnau, 1873.
1375. *Cyprinocirrhites polyactis* (Bleeker, 1875).
1376. *Chironemus georgianus* Cuvier & Valenciennes, 1829.
1377. *Chironemus aboriginalis* Whitley, 1931.

1378. *Chironemus marmoratus* Gunther, 1860.
1379. *Threpterus maculosus* Richardson, 1850.
1380. *Threpterus chalcus* T. D. Scott, 1954.
1381. *Dactylosargus meandratus* (Richardson, 1842).
1382. *Dactylosargus arctidens* (Richardson, 1839).
1383. *Crinodus lophodon* (Gunther, 1859).
1384. *Crinodus marmoratus* (Thomiot, 1883).
1385. *Nemadactylus concinnus* Richardson, 1839.
1386. *Nemadactylus carponemus* (Cuvier & Valenciennes, 1830).
1387. *Nemadactylus douglasii* (Hector, 1875).
1388. *Nemadactylus valenciennesi* (Whitley, 1937).
1389. *Nemadactylus macropterus* (Bloch & Schneider, 1801).
1390. *Morwong fuscus* (Castelnau, 1879).
1391. *Cheilodactylus spectabilis* Hutton, 1872.
1392. *Cheilodactylus nigripes* Richardson, 1850.
1393. *Goniistius gibbosus* (Richardson, 1841).
1394. *Goniistius vizonarius* (Saville-Kent, 1887).
1395. *Psilocranium nigricans* (Richardson, 1850).
1396. *Latris mortoni* Saville-Kent, 1886.
1397. *Latris lineata* (Bloch & Schneider, 1801).
1398. *Latridopsis ciliaris* (Bloch & Schneider, 1801).
1399. *Latridopsis forsteri* (Castelnau, 1872).
1400. *Mendosoma allporti* Johnston, 1881.
1401. *Schindleria praeamatura* (Schindler, 1930).
1402. *Pneumatophorus australasicus* (Cuvier & Valenciennes, 1832).
1403. *Rastrelliger canagurta serventyi* Whitley, 1944.
1404. *Auxis thazard* (Lacepede, 1801).
1405. *Auxis thynnoides* Bleeker, 1855.
1406. *Gymnosarda unicolor* (Ruppell, 1836).
1407. *Katsuwonus pelamis* (Linné, 1758).
1408. *Euthynnus wallisi* (Whitley, 1937).
1409. *Kishinoella tonggol* (Bleeker, 1851).
1410. *Allothunnus fallai* Serventy, 1948.
1411. *Neothunnus macropterus* (Temminck & Schlegel, 1844).
1412. *Parathunnus argentivittatus* (Cuvier & Valenciennes, 1832).
1413. *Thynnus maccoyii* (Castelnau, 1872).
1414. *Germo germon steadi* Whitley, 1933.
1415. *Grammatoryncus bicarinatus* (Quoy & Gaimard, 1825).
1416. *Sarda australis* (Macleay, 1881).
1417. *Sarda orientalis serventyi* Whitley, 1945.
1418. *Cybiosarda elegans* (Whitley, 1935).
1419. *Cybium commerson* (Lacepede, 1800).
1420. *Cybium queenslandicum* (Munro, 1943).
1421. *Sawara nipponia* (Cuvier & Valenciennes, 1832).
1422. *Indocybium semifasciatum* (Macleay, 1883).
1423. *Acanthocybium solandri* (Cuvier & Valenciennes, 1832).
1424. *Gasterochisma melampus* Richardson, 1845.
1425. *Lwarus imperialis* Rafinesque, 1810.
1426. *Ruvettus tydemani* Weber, 1913.
1427. *Xiphias estara* Phillipps, 1932.
1428. *Makaira mazara howardi* (Whitley, 1954).
1429. *Istiompax dombraini* Whitley, 1954.
1430. *Istiompax indicus* (Cuvier & Valenciennes, 1832).
1431. *Tetrapturus brevirostris* (Playfair, 1866).
1432. *Istiophorus ludibundus* Whitley, 1933.
1433. *Marlina audax zelandica* (Jordan & Evermann, 1926).
1434. *Benthodesmus elongatus* (Clarke, 1879).
1435. *Lepidopus lex* Phillipps, 1932.
1436. *Assurger alexanderi* Whitley, 1933.
1437. *Trichiurus coxii* Ogilby, 1887.
1438. *Trichiurus haumela* (Bonnatere, 1788).
1439. *Lepturacanthus savala* (Cuvier, 1829).
1440. *Leionura atun* (Enphrasen, 1791).
1441. *Rexa solandri* (Cuvier & Valenciennes, 1832).
1442. *Lepidocybium flavobrunneum* (Smith, 1843).
1443. *Amphacanthus lineatus* (Cuvier & Valenciennes, 1835).
1444. *Amphacanthus javus* (Linné, 1766).
1445. *Amphacanthus vermiculatus* Cuvier & Valenciennes, 1835.
1446. *Amphacanthus tumifrons* Cuvier & Valenciennes, 1835.
1447. *Amphacanthus notostictus* Richardson, 1853.
1448. *Amphacanthus doliatus* (Griffith, 1834).
1449. *Amphacanthus oramin* Bloch & Schneider, 1801.
1450. *Amphacanthus fuscescens* (Houttuyn, 1782).
1451. *Amphacanthus chrysoopilos* Bleeker, 1852.
1452. *Amphacanthus nebulosus* Quoy & Gaimard, 1824.
1453. *Amphacanthus corallinus* Cuvier & Valenciennes, 1835.
1454. *Amphacanthus hexacanthus* (Barton, 1950).
1455. *Amphacanthus teuthopsis* (De Vis, 1884).
1456. *Amphacanthus gibbosus* (De Vis, 1884).
1457. *Amphacanthus capricornensis* (Whitley, 1926).
1458. *Amphacanthus concavocephalus* (Paradice, 1927).
1459. *Amphacanthus hexagonatus* Bleeker, 1854.
1460. *Amphacanthus virgatus* Cuvier & Valenciennes, 1835.
1461. *Lo vulpinus* (Schlegel & Muller, 1844).
1462. *Buro brunneus* Lacepede, 1803.
1463. *Rhombotides triostegus* (Linné, 1758).
1464. *Teuthis nigrofuscus* (Gmelin, 1789).



1465. *Teuthis nigroris* (Cuvier & Valenciennes, 1835).
1466. *Teuthis spinifrons* Whitley, 1953.
1467. *Teuthis dussumieri* (Cuvier & Valenciennes, 1835).
1468. *Teuthis fuliginosus* (Lesson, 1831).
1469. *Teuthis glaucopareius* (Cuvier, 1829).
1470. *Teuthis formosus* (Castelnau, 1873).
1471. *Teuthis gahm* (Gmelin, 1789).
1472. *Teuthis lineatus* (Linné, 1758).
1473. *Teuthis olivaceus* (Bloch & Schneider, 1801).
1474. *Ctenochaetus strigosus* (Bennett, 1828).
1475. *Zebрасoma hypselopteron* (Bleeker, 1854).
1476. *Laepichthys rostratus* (Gunther, 1875).
1477. *Prionurus microlepidotus* Lacepede, 1804.
1478. *Burobulla maculata* (Ogilby, 1887).
1479. *Naso unicornis* (Bonnaterre, 1788).
1480. *Naso lituratus* (Bloch & Schneider, 1801).
1481. *Priodon annulatus* Quoy & Gaimard, 1824.
1482. *Cyphomycter tuberosus* (Lacepede, 1802).
1483. *Zanclus canescens* (Linné, 1758).
1484. *Psettodes erumei* (Bloch & Schneider, 1801).
1485. *Scaecops grandisquama spiniceps* (Macleay, 1881).
1486. *Egyprosopon bleekeri* (Macleay, 1881).
1487. *Bothus pantherinus* (Ruppell, 1831).
1488. *Grammatobothus polyophthalmus* (Bleeker, 1866).
1489. *Grammatobothus pennatus* (Ogilby, 1913).
1490. *Arnoglossus tenuis* Gunther, 1880.
1491. *Arnoglossus andrewsi* Kurth, 1954.
1492. *Arnoglossus fisoni* Ogilby, 1898.
1493. *Arnoglossus waitei* Norman, 1926.
1494. *Arnoglossus muelleri* (Klunzinger, 1872).
1495. *Arnoglossus bassensis* Norman, 1926.
1496. *Arnoglossus intermedius* (Bleeker, 1866).
1497. *Arnoglossus aspilos praeteritus* Whitley, 1950.
1498. *Lophonectes gallus* Gunther, 1880.
1499. *Istiorhombus spinosus* (McCulloch, 1914).
1500. *Istiorhombus spinosus normani* Whitley, 1931.
1501. *Pseudorhombus dupliciocellatus* Regan, 1905.
1502. *Pseudorhombus argus* Weber, 1913.
1503. *Pseudorhombus jenynsii* Bleeker, 1855.
1504. *Pseudorhombus dubius* Norman, 1934.
1505. *Pseudorhombus arsius* (Hamilton-Buchanan, 1822).
1506. *Pseudorhombus tenuirostrum* (Waite, 1899).
1507. *Pseudorhombus anomalus* Ogilby, 1912.
1508. *Pseudorhombus elevatus* Ogilby, 1912.
1509. *Pseudorhombus moorei* Thominet, 1880.
1510. *Pseudorhombus diplospilus* Norman, 1926.
1511. *Azygopus pinnifasciatus* Norman, 1926.
1512. *Samaris cacatucae* (Ogilby, 1910).
1513. *Ammotretis rostratus* Gunther, 1862.
1514. *Ammotretis elongatus* McCulloch, 1914.
1515. *Ammotretis tudori* McCulloch, 1914.
1516. *Ammotretis macrolepis* McCulloch, 1914.
1517. *Ammotretis brevipiinnis* Norman, 1926.
1518. *Ammotretis lituratus* (Richardson, 1843).
1519. *Rhombosolea tapirina* Gunther, 1862.
1520. *Neorhombus unicolor* Castelnau, 1875.
1521. *Microbuglossus ovatus* (Richardson, 1846).
1522. *Liachirus klunzingeri* (Weber, 1908).
1523. *Liachirus whitleyi* Chabanaud, 1950.
1524. *Soleichthys lineatus* (Ramsay, 1883).
1525. *Æsopia microcephala* (Gunther, 1862).
1526. *Æsopia heterorhinus* (Bleeker, 1856).
1527. *Aseraggodes haackeanus* (Steindachner, 1883).
1528. *Aseraggodes haackeanus ramsaii* Ogilby, 1889.
1529. *Synclidopus normani* (Chabanaud, 1930).
1530. *Synclidopus macleayanus* (Ramsay, 1881).
1531. *Rendahlia jaubertensis* (Rendahl, 1921).
1532. *Pardachirus pavoninus* (Lacepede, 1802).
1533. *Pardachirus hedleyi* Ogilby, 1916.
1534. *Normanetta rautheri* (Chabanaud, 1931).
1535. *Achlyopa nigra* (Macleay, 1880).
1536. *Trichobranchirus salinarum* (Ogilby, 1910).
1537. *Trichobranchirus selheimi* (Macleay, 1882).
1538. *Trichobranchirus breviceps* (Ogilby, 1910).
1539. *Heterobuglossus aspilos* (Bleeker, 1852).
1540. *Strabozebrias cancellatus* (McCulloch, 1916).
1541. *Strabozebrias craticulus* (McCulloch, 1916).
1542. *Haplozebrias fasciatus* (Macleay, 1882).
1543. *Devillus* (*Strandichthys*) *muelleri* (Steindachner, 1879).
1544. *Paradicula setifer* (Paradice, 1927).
1545. *Phyllichthys sclerolepis* (Macleay, 1878).
1546. *Phyllichthys punctatus* McCulloch, 1916.
1547. *Phyllichthys sejunctus* Whitley, 1935.
1548. *Nematozebrias quagga* (Kaup, 1858).
1549. *Symphurus australis* McCulloch, 1907.
1550. *Symphurus holothuriae* Chabanaud, 1948.
1551. *Paraplagusia acuminata* (Castelnau, 1875).
1552. *Paraplagusia unicolor* (Macleay, 1881).
1553. *Rhinoplagusia guttata* (Macleay, 1878).

1554. *Rhinoplagusia australis* Rendahl, 1922.  
 1555. *Cynoglossus ogilbyi* Norman, 1926.  
 1556. *Cynoglossus macrophthalmus* Norman, 1926.  
 1557. *Cynoglossus maccullochi* Norman, 1926.  
 1558. *Cynoglossus broadhursti* Waite, 1905.  
 1559. *Cynoglossus sindensis* Day, 1877.  
 1560. *Cynoglossus maculipinnis* Rendahl, 1921.  
 1561. *Cynoglossus bilineatus* (Bloch, 1787).  
 1562. *Amphiprion verweyi* Whitley, 1933.  
 1563. *Amphiprion polymyi* (Linné, 1758).  
 1564. *Amphiprion melanopus* Bleeker, 1852.  
 1565. *Amphiprion tricolor* Gunther, 1862.  
 1566. *Amphiprion bicinctus* Ruppell, 1831.  
 1567. *Amphiprion unimaculatus* (Meuschen, 1781).  
 1568. *Amphiprion chrysogaster* Cuvier & Valenciennes, 1830.  
 1569. *Amphiprion melanostolus* Richardson, 1842.  
 1570. *Amphiprion rubrocinctus* Richardson, 1842.  
 1571. *Amphiprion papuensis* Macleay, 1883.  
 1572. *Amphiprion clarkii* (Bennett, 1830).  
 1573. *Amphiprion perideraion* Bleeker, 1855.  
 1574. *Actinicola percula* (Lacepede, 1802).  
 1575. *Actinicola bicolor* (Castelnau, 1873).  
 1576. *Premnas biaculeatus* (Bloch, 1790).  
 1577. *Premnas gibbosus* Castelnau, 1875.  
 1578. *Pomacentrus ovooides* Cartier, 1874.  
 1579. *Pomacentrus obreptus* Whitley, 1948.  
 1580. *Pomacentrus taeniurus* Bleeker, 1856.  
 1581. *Pomacentrus violescens* (Bleeker, 1848).  
 1582. *Dischistodus fasciatus* (Cuvier & Valenciennes, 1830).  
 1583. *Dischistodus prosopotaenia* (Bleeker, 1852).  
 1584. *Dischistodus perspicillatus* (Cuvier & Valenciennes, 1830).  
 1585. *Dischistodus notophthalmus* (Bleeker, 1853).  
 1586. *Pseudopomacentrus rainfordi* Whitley, 1935.  
 1587. *Pseudopomacentrus littoralis* (Cuvier & Valenciennes, 1830).  
 1588. *Pseudopomacentrus wardi macleayi* (Whitley, 1928).  
 1589. *Pseudopomacentrus wardi wardi* (Whitley, 1927).  
 1590. *Pseudopomacentrus bilineatus* (Castelnau, 1873).  
 1591. *Pseudopomacentrus modestus* (Castelnau, 1875).  
 1592. *Pseudopomacentrus flavicauda* Whitley, 1928).  
 1593. *Pseudopomacentrus fasciatus* (Macleay, 1878).  
 1594. *Pseudopomacentrus sufflavus* (Whitley, 1927).  
 1595. *Pseudopomacentrus amboinensis* (Bleeker, 1868).  
 1596. *Pseudopomacentrus apicalis* (De Vis, 1885).  
 1597. *Pseudopomacentrus bankanensis* (Bleeker, 1856).  
 1598. *Brachypomacentrus albifasciatus* (Schlegel & Muller, 1844).  
 1599. *Eupomacentrus subniger* (De Vis, 1885).  
 1600. *Eupomacentrus lividus* (Bloch & Schneider, 1801).  
 1601. *Eupomacentrus profundus* (De Vis, 1885).  
 1602. *Daya jerdoni* (Day, 1873).  
 1603. *Parapomacentrus bankieri* (Richardson, 1846).  
 1604. *Cheiloprion labiatus* (Day, 1877).  
 1605. *Glyphisodon coelestinus* Cuvier & Valenciennes, 1830.  
 1606. *Glyphisodon palmeri* Cockerell, 1913.  
 1607. *Glyphisodon seafasciatus* (Lacepede, 1802).  
 1608. *Glyphisodon saxatilis vaigiensis* Quoy & Gaimard, 1825.  
 1609. *Glyphisodon septemfasciatus* Cuvier & Valenciennes, 1830.  
 1610. *Glyphisodon sordidus* (Bonnaterre, 1788).  
 1611. *Glyphisodon leucogaster* Bleeker, 1846.  
 1612. *Glyphisodon expansus* De Vis, 1885.  
 1613. *Glyphisodon luteocaudatus* Saville-Kent, 1893.  
 1614. *Glyphisodon hemicyaneus* (Weber, 1913).  
 1615. *Amblyglyphidodon curacao* (Bloch, 1787).  
 1616. *Negostegastes leucozona* (Bleeker, 1859).  
 1617. *Paraglyphidodon melas* (Cuvier & Valenciennes, 1830).  
 1618. *Paraglyphidodon melanopus* (Bleeker, 1856).  
 1619. *Glyphidodontops biocellatus* (Quoy & Gaimard, 1825).  
 1620. *Glyphidodontops amabilis* (De Vis, 1884).  
 1621. *Glyphidodontops unimaculatus* (Cuvier & Valenciennes, 1830).  
 1622. *Glyphidodontops zonatus* (Cuvier & Valenciennes, 1830).  
 1623. *Iredaleichthys hedleyi* (Whitley, 1927).  
 1624. *Iredaleichthys glaucus* (Cuvier & Valenciennes, 1830).  
 1625. *Iredaleichthys uniocellatus* (Quoy & Gaimard, 1825).  
 1626. *Actinochromis victoriae* (Gunther, 1863).  
 1627. *Parma microlepis* Gunther, 1862.  
 1628. *Parma oligolepis* Whitley, 1929.  
 1629. *Parma viola* Whitley, 1929.  
 1630. *Parma maccullochi* Whitley, 1929.  
 1631. *Mecaenichthys immaculatus* (Ogilby, 1885).  
 1632. *Chromis humbug* Whitley, 1954.  
 1633. *Chromis bitaeniatus* Fowler & Bean, 1928.  
 1634. *Chromis nitidus* (Whitley, 1928).  
 1635. *Chromis hypsilepis* (Gunther, 1867).  
 1636. *Chromis klunzingeri* Whitley, 1929.  
 1637. *Chromis scotochilopterus* Fowler, 1918.  
 1638. *Chromis cinerascens* (Cuvier & Valenciennes, 1830).  
 1639. *Hoplochromis caeruleus* (Cuvier & Valenciennes, 1830).  
 1640. *Dascyllus aruanus* (Linné, 1758).



1641. *Pelochromis xanthosoma* (Bleeker, 1851).
1642. *Pelochromis trimaculatus* (Ruppell, 1829).
1643. *Acanthochromis* (*Heptadecanthus*) *longicaudis* (Alleyne & Macleay, 1877).
1644. *Acanthochromis* (*Heptadecanthus*) *maculosus* (De Vis, 1885).
1645. *Acanthochromis* (*Heptadecanthus*) *brevipinnis* (De Vis, 1885).
1646. *Cheilio inermis* (Bonnaterre, 1788).
1647. *Duymaeria flagellifera* (Cuvier & Valenciennes, 1839).
1648. *Coris aygula cyanea* Macleay, 1883.
1649. *Coris auricularis* (Cuvier & Valenciennes, 1838).
1650. *Coris dorsomaculata* Fowler, 1908.
1651. *Coris gaimard* (Quoy & Gaimard, 1824).
1652. *Hemicoris variegata* (Ruppell, 1835).
1653. *Hemicoris pallida* (Macleay, 1881).
1654. *Ctenocorissa picta* (Bloch & Schneider, 1801).
1655. *Tiricoris sandeyeri rex* (Ramsay & Ogilby, 1885).
1656. *Ophthalmolepis lineolatus* (Cuvier & Valenciennes, 1838).
1657. *Eupetrichthys angustipes* Ramsay & Ogilby, 1888.
1658. *Pictilabrus laticlavus* (Richardson, 1839).
1659. *Austrolabrus maculatus* (Macleay, 1881).
1660. *Pseudolabrus luculentus* (Richardson, 1848).
1661. *Pseudolabrus convexus* (Castelnaud, 1875).
1662. *Pseudolabrus cyprinaceus* (White, 1790).
1663. *Pseudolabrus guntheri* Bleeker, 1862.
1664. *Pseudolabrus fucicola* (Richardson, 1840).
1665. *Pseudolabrus bostockii* (Castelnaud, 1873).
1666. *Pseudolabrus tetricus* (Richardson, 1840).
1667. *Pseudolabrus cuvieri* (Castelnaud, 1873).
1668. *Pseudolabrus bleekeri* (Castelnaud, 1872).
1669. *Pseudolabrus gymnogenis* (Gunther, 1862).
1670. *Pseudolabrus parilis* (Richardson, 1850).
1671. *Pseudolabrus punctulatus* (Gunther, 1862).
1672. *Pseudolabrus unicolor* (Castelnaud, 1875).
1673. *Pseudolabrus macleayi* (Herzenstein, 1896).
1674. *Pseudolabrus bleasdalei* (Castelnaud, 1875).
1675. *Lunolabrus miles* (Bloch & Schneider, 1801).
1676. *Lunolabrus celidotus botryocosmus* (Richardson, 1846).
1677. *Dotalabrus aurantiacus* (Castelnaud, 1872).
1678. *Hemigymnus fasciatus* (Bloch, 1792).
1679. *Hemigymnus* (*Cheilolabrus*) *melapterus* (Bloch, 1791).
1680. *PlatyGLOSSUS amabilis* De Vis, 1885.
1681. *PlatyGLOSSUS equinus* De Vis, 1885.
1682. *PlatyGLOSSUS punctatus* De Vis, 1885.
1683. *PlatyGLOSSUS dussumieri* (Cuvier & Valenciennes, 1838).
1684. *PlatyGLOSSUS immaculatus* Macleay, 1878.
1685. *PlatyGLOSSUS notopsis* (Cuvier & Valenciennes, 1838).
1686. *Halichores nebulosus* (Cuvier & Valenciennes, 1838).
1687. *Halichores argus* (Bloch & Schneider, 1801).
1688. *Halichores poecilus* (Lay & Bennett, 1839).
1689. *Halichores melanurus* (Bleeker, 1851).
1690. *Halichores hoeveni* (Bleeker, 1851).
1691. *Halichores hartfeldii* (Bleeker, 1852).
1692. *Choerojulis gymnocephalus* (Bloch & Schneider, 1801).
1693. *Choerojulis brownfieldi* Whitley, 1945.
1694. *Octocynodon miniatus* (Cuvier & Valenciennes, 1838).
1695. *Octocynodon margaritaceus* (Cuvier & Valenciennes, 1839).
1696. *Halimnoides leucostigma* (Fowler & Bean, 1928).
1697. *Guntheria devisi* Whitley, 1941.
1698. *Guntheria ziczac* (De Vis, 1885).
1699. *Guntheria trimaculata* (Griffith, 1834).
1700. *Guntheria vestalis* Whitley, 1958.
1701. *Hemitautoga centiquadrus* (Lacepede, 1802).
1702. *Labroides auropinna* Saville-Kent, 1893.
1703. *Labroides bicinctus* Saville-Kent, 1893.
1704. *Labroides dimidiatus* (Cuvier & Valenciennes, 1839).
1705. *Labrichthys cyaneotaenia* Bleeker, 1854.
1706. *Gomphosus varius* Lacepede, 1802.
1707. *Gomphosus caeruleus* Lacepede, 1802.
1708. *Pseudojulis murrayensis* De Vis, 1885.
1709. *Pseudojulis maculifer* Castelnaud, 1875.
1710. *Pseudojulops trifasciatus* (Weber, 1913).
1711. *Stethojulis strigiventer* (Bennett, 1833).
1712. *Stethojulis renardi* (Bleeker, 1851).
1713. *Stethojulis kalosoma* (Bleeker, 1852).
1714. *Stethojulis casturi* Gunther, 1881.
1715. *Stethojulis rubromacula* T. D. Scott, 1959.
1716. *Hinalea axillaris* (Quoy & Gaimard, 1824).
1717. *Thalassoma lunare* (Linné, 1758).
1718. *Thalassoma lutescens* (Lay & Bennett, 1839).
1719. *Thalassoma ventrale* (De Vis, 1885).
1720. *Thalassoma cyanoventor* (Saville-Kent, 1893).
1721. *Thalassoma semilunatum* (Lacepede, 1804).
1722. *Thalassoma septemfasciatum* T. D. Scott, 1959.
1723. *Thalassoma hardwicke* (Bennett, 1829).
1724. *Thalassoma janseni* (Bleeker, 1856).

1725. *Thalassoma dorsale* (Quoy & Gaimard, 1825).
1726. *Julichthys inornatus* De Vis, 1885.
1727. *Novaculichthys jacksonensis* (Ramsay, 1881).
1728. *Novaculichthys taeniourus* (Lacepede, 1802).
1729. *Cheilinus oxyrhynchus* Bleeker, 1862.
1730. *Cheilinus fasciatus* (Bloch, 1791).
1731. *Cheilinus bimaculatus* Cuvier & Valenciennes, 1839.
1732. *Cheilinus digrammus* (Lacepede, 1802).
1733. *Cheilinus undulatus* Ruppell, 1835.
1734. *Thalivurus chlorourus* (Bloch, 1791).
1735. *Epibulus insidiator* (Pallas, 1770).
1736. *Anampses pterophthalmus* Bleeker, 1857.
1737. *Anampses lennardi* T. D. Scott, 1959.
1738. *Anampses geographicus* Cuvier & Valenciennes, 1839.
1739. *Choerodon venustus* (De Vis, 1884).
1740. *Choerodon paynei* Whitley, 1945.
1741. *Choerodon cyanostolus* (Richardson, 1846).
1742. *Choerodon australis* (Castelnau, 1875).
1743. *Choerodon lineatus* (De Vis, 1885).
1744. *Choerodon schoenleinii* (Cuvier & Valenciennes, 1839).
1745. *Choerodon cyanodus* (Richardson, 1843).
1746. *Choerodon albigena* (De Vis, 1885).
1747. *Choerodon cephalotes* (Castelnau, 1875).
1748. *Choerodon macleayi* (Ramsay & Ogilby, 1887).
1749. *Choerodon rubescens* (Gunther, 1862).
1750. *Choerodon crassus* (Castelnau, 1875).
1751. *Choerodon anchorago* (Bloch, 1791).
1752. *Choerodon transversalis* Whitley, 1956.
1753. *Choerodon rubidus* T. D. Scott, 1959.
1754. *Choerodon vitta* Ogilby, 1910.
1755. *Choerodon frenatus* Ogilby, 1910.
1756. *Choerodon monostigma* Ogilby, 1910.
1757. *Lienardella fasciata* (Gunther, 1867).
1758. *Xiphocheilus quadrimaculatus* Gunther, 1880.
1759. *Achoerodus gouldii* (Richardson, 1843).
1760. *Lepidaplois vulpinus* (Richardson, 1850).
1761. *Lepidaplois richardsoni* Fowler, 1908.
1762. *Lepidaplois perditio* (Quoy & Gaimard, 1835).
1763. *Lepidaplois mesothorax* (Bloch & Schneider, 1801).
1764. *Lepidaplois latro* (De Vis, 1885).
1765. *Trochocopus sanguinolentus* De Vis, 1883.
1766. *Verreo bellis* (Ramsay & Ogilby, 1887).
1767. *Verreo unimaculatus* (Gunther, 1862).
1768. *Haletta semifasciata* (Cuvier & Valenciennes, 1840).
1769. *Neoodax balteatus* (Cuvier & Valenciennes, 1839).
1770. *Neoodax (Sheardichthys) radiatus* (Quoy & Gaimard, 1835).
1771. *Neoodax frenatus* (Gunther, 1862).
1772. *Neoodax attenuatus* (Ogilby, 1897).
1773. *Coriododax pullus* (Bloch & Schneider, 1801).
1774. *Olisthops cyanomelas* Richardson, 1850.
1775. *Siphonognathus argyrophanes* Richardson, 1858.
1776. *Siphonognathus beddomei* (Johnston, 1885).
1777. *Heteroscarus acroptilus* (Richardson, 1846).
1778. *Callyodon toshi* (Whitley, 1933).
1779. *Callyodon formosus* (Cuvier & Valenciennes, 1840).
1780. *Callyodon frenatus* (Lacepede, 1802).
1781. *Callyodon ghobban* (Bonnaterre, 1788).
1782. *Callyodon sordidus* (Bonnaterre, 1788).
1783. *Callyodon strigipinnis* (De Vis, 1885).
1784. *Callyodon fuscus* (De Vis, 1885).
1785. *Callyodon fasciatus* (Cuvier & Valenciennes, 1840).
1786. *Callyodon dubius* (E. Bennett, 1828).
1787. *Callyodon globiceps* (Cuvier & Valenciennes, 1840).
1788. *Callyodon microrhinos* (Bleeker, 1854).
1789. *Callyodon flavipinnis* (De Vis, 1885).
1790. *Callyodon flavolineatus* (Alleyne & Macleay, 1877).
1791. *Callyodon nudirostris* (Alleyne & Macleay, 1877).
1792. *Callyodon obscurus* (Castelnau, 1875).
1793. *Callyodon modestus* (Castelnau, 1875).
1794. *Callyodon dumerilii* (Castelnau, 1875).
1795. *Callyodon richardsonii* (Castelnau, 1875).
1796. *Callyodon viridescens* (Castelnau, 1875), not *Scarus (Callyodon) viridescens* Ruppell.
1797. *Callyodon forsteri* (Cuvier & Valenciennes, 1839).
1798. *Xanothon cyanotaenia* (Bleeker, 1861).
1799. *Chlorurus (Cetoscarus) bicolor* (Ruppell, 1829).
1800. *Cryptotomus spinidens* (Quoy & Gaimard, 1824).
1801. *Leptoscarus vaigiensis* (Quoy & Gaimard, 1824).
1802. *Gadopsis marmoratus* Richardson, 1848.
1803. *Ammodytoides vagus* (McCulloch & Waite, 1916).
1804. *Champsodon nudivittis* (Ogilby, 1895).
1805. *Tandya latitabunda* Whitley, 1937.
1806. *Tandya papuensis* (Bleeker, 1868).
1807. *Tandya darwiniensis* (Macleay, 1878).
1808. *Tandya inornata* (Ramsay & Ogilby, 1887).
1809. *Merogymnus eximius* Ogilby, 1908.
1810. *Merogymnus jacksoniensis* (Macleay, 1881).
1811. *Parapercis cylindrica* (Bloch, 1792).
1812. *Parapercis haackei* (Steindachner, 1884).
1813. *Parapercis (Neosillago) nebulosa* (Quoy & Gaimard, 1825).
1814. *Parapercis (Neosillago) stricticeps* (De Vis, 1884).
1815. *Parapercis (Neosillago) hexophthalma* (Cuvier & Valenciennes, 1829).



1816. *Parapercis* (*Neosillago*) *xanthozona* (Bleeker, 1849).
1817. *Neopercis ramsayi* (Steindachner, 1884).
1818. *Neopercis allporti* (Gunther, 1876).
1819. *Neopercis binivirgata* Waite, 1904.
1820. *Neopercis naevosa* (Serventy, 1937).
1821. *Enigmapercis reducta* Whitley, 1936.
1822. *Lesueurina platycephala* Fowler, 1908.
1823. *Trichonotus blochii* Castelnau, 1875.
1824. *Trichonotus setiger* Bloch & Schneider, 1801.
1825. *Kraemeria samoensis merensis* Whitley, 1935.
1826. *Parkraemeria ornata* Whitley, 1951.
1827. *Credia haswelli* (Ramsay, 1881).
1828. *Squamiercedia obtusa* Rendahl, 1921.
1829. *Linnichthys fasciatus* Waite, 1904.
1830. *Linnichthys fasciatus major* Whitley, 1945.
1831. *Schizochirus insolens* Waite, 1904.
1832. *Crapatahus arenarius* McCulloch, 1915.
1833. *Leptoscopus macropygus* (Richardson, 1846).
1834. *Uranoscopus cognatus* Cantor, 1850.
1835. *Uranoscopus terraereginae* Ogilby, 1910.
1836. *Kathetostoma laeve* (Bloch & Schneider, 1801).
1837. *Kathetostoma nigrofasciatum* Waite & McCulloch, 1915.
1838. *Gnathagnonoides innotabilis* (Waite, 1904).
1839. *Ichthyoscopus spinosus* Mees, 1960.
1840. *Ichthyoscopus barbatus* Mees, 1960.
1841. *Ichthyoscopus insperatus* Mees, 1960.
1842. *Ichthyoscopus fasciatus* Haysom, 1957.
1843. *Ichthyoscopus sannio* Whitley, 1936.
1844. *Geyagnus monopterygius* (Bloch & Schneider, 1801).
1845. *Bovichtus variegatus* Richardson, 1846.
1846. *Bovichtus angustifrons* Regan, 1913.
1847. *Pseudaphritis bursinus* (Cuvier & Valenciennes, 1830).
1848. *Dactylopus dactylopus* (Cuvier & Valenciennes, 1837).
1849. *Diplogrammus goramensis* (Bleeker, 1858).
1850. *Synchiropus splendidus* (Herre, 1927).
1851. *Synchiropus microps* (Gunther, 1877).
1852. *Foetorepus calauropomus* (Richardson, 1844).
1853. *Foetorepus achates* (De Vis, 1883).
1854. *Foetorepus papilio* (Gunther, 1864).
1855. *Callimucenus macdonaldi* (Ogilby, 1911).
1856. *Repomucenus calcaratus* (Macleay, 1881).
1857. *Yerutius phasis* (Gunther, 1880).
1858. *Yerutius apricus* (McCulloch, 1926).
1859. *Calliurichthys grossi* (Ogilby, 1910).
1860. *Calliurichthys japonicus* (Houttuyn, 1782).
1861. *Calliurichthys goodladi* Whitley, 1944.
1862. *Calliurichthys nasutus* (McCulloch, 1926).
1863. *Calliurichthys belcheri* (Richardson, 1844).
1864. *Orbonymus rameus* (McCulloch, 1926).
1865. *Callionymus calliste* Jordan & Fowler, 1903.
1866. *Callionymus ocelligena* McCulloch, 1926.
1867. *Velesionymus limiceps limiceps* (Ogilby, 1908).
1868. *Velesionymus limiceps sublaevis* (McCulloch, 1926).
1869. *Macrurrhynchus maroubrae* Ogilby, 1896.
1870. *Aspidontus taeniatus* Quoy & Gaimard, 1835.
1871. *Runula tapeinosoma* (Bleeker, 1857).
1872. *Xiphasia setifer* Swainson, 1839.
1873. *Petroscirtes helenae* (De Vis, 1884).
1874. *Petroscirtes mitratus* Ruppell, 1830.
1875. *Petroscirtes fasciolatus* Macleay, 1881.
1876. *Petroscirtes solorensis* Bleeker, 1853.
1877. *Petroscirtes cyprinoides* (Cuvier & Valenciennes, 1836).
1878. *Cyneichthys anolius* (Cuvier & Valenciennes, 1836).
1879. *Echelyurus kraussi* (Klunzinger, 1871).
1880. *Echelyurus flavipes* (Peters, 1869).
1881. *Echelyurus caeruleopunctatus* Herre, 1939.
1882. *Dasson eretes* (Jordan & Seale, 1905).
1883. *Dasson temmincki* (Bleeker, 1851).
1884. *Dasson dasson* (Jordan and Snyder, 1902).
1885. *Dasson steadi* Whitley, 1930.
1886. *Dasson lupus* (De Vis, 1886).
1887. *Dasson vipcridens* (De Vis, 1884).
1888. *Dasson duperreyi* Whitley, 1945.
1889. *Graviceps decipiens* (De Vis, 1884).\*
1890. *Graviceps alexanderi* Whitley, 1945.
1891. *Graviceps punctatus hyena* Whitley, 1953.
1892. *Graviceps furcatus* (De Vis, 1884).\*
1893. *Graviceps angelus* Whitley, 1959.
1894. *Graviceps darwini* Whitley, 1958.
1895. *Graviceps (Pauloscirtes) obliquus* (Garman, 1903).
1896. *Graviceps (Pauloscirtes) kallosoma* (Bleeker, 1858).
1897. *Graviceps (Pauloscirtes) elongatus* (Peters, 1855).
1898. *Meiacanthus grammistes* (Cuvier & Valenciennes, 1836).
1899. *Atrosalarias fuscus* (Ruppell, 1838).
1900. *Istiblennius edentulus* (Bloch & Schneider, 1801).
1901. *Istiblennius mulleri* (Klunzinger, 1879).
1902. *Istiblennius spaldingi* (Macleay, 1878).
1903. *Salarias chrysoopilus velemites* De Vis, 1884.
1904. *Salarias fasciatus* Bloch, 1786.
1905. *Salarias dussumieri geminatus* Alleyne & Macleay, 1877.
1906. *Crenalticus lineatus* (Cuvier & Valenciennes, 1836).
1907. *Crenalticus pallidus* (Whitley, 1926).
1908. *Crenalticus meleagris* (Cuvier & Valenciennes, 1836).
1909. *Negoscirtes guttatus* (Cuvier & Valenciennes, 1836).

\* New combination, these species formerly in *Petroscirtes*.

1910. *Entomacrodus decussatus* (Bleeker, 1858).
1911. *Cirripectus filamentosus* (Alley & Macleay, 1877).
1912. *Cirripectus sebae* (Cuvier & Valenciennes, 1836).
1913. *Pescadorichthys frontalis* (Cuvier & Valenciennes, 1836).
1914. *Ecsenius mandibularis* McCulloch, 1923.
1915. *Pictiblennius iredalei* Whitley, 1931.
1916. *Pictiblennius intermedius* (Ogilby, 1915).
1917. *Pictiblennius tasmanianus* (Richardson, 1839).
1918. *Blennius pardalis* Castelnau, 1875.
1919. *Blennius victoriae* Fowler, 1908.
1920. *Queriblennius gaudichaudi* Whitley, 1933.
1921. *Verconectes bucephalus* (McCulloch & Waite, 1918).
1922. *Brachynectes fasciatus* T. D. Scott, 1957.
1923. *Helcogramma decurrens* McCulloch & Waite, 1918.
1924. *Vauchusella atrogularis* (Gunther, 1873).
1925. *Vauchusella annulata* (Ramsay & Ogilby, 1887).
- 1925a. *Vauchusella acanthops* Whitley, 1964.
1926. *Norfolkia striaticeps* (Ramsay & Ogilby, 1888).
1927. *Norfolkia clarkei* (Morton, 1888).
1928. *Norfolkia squamiceps* (McCulloch & Waite, 1916).
1929. *Norfolkia macleayana* (Lucas, 1891).
1930. *Norfolkia thomasi* Whitley, 1964.
1931. *Lepidoblennius haplodactylus* Steindachner, 1867).
1932. *Lepidoblennius marmoratus* Macleay, 1878.
1933. *Heteroclinus adelaidae* Castelnau, 1872.
1934. *Clinus perspicillatus* Cuvier & Valenciennes, 1836.
1935. *Clinus tristis* (Klunzinger, 1872).
1936. *Clinus puellarum* E. Scott, 1955.
1937. *Petraites johnstoni* (Saville-Kent, 1886).
1938. *Petraites heptaeolus* Ogilby, 1885.
1939. *Petraites multifenestratus* (Castelnau, 1872).
1940. *Petraites antinectes* (Gunther, 1861).
1941. *Petraites rosceus* (Gunther, 1861).
1942. *Petraites sellularius* Whitley, 1931.
1943. *Petraites nasutus* (Gunther, 1861).
1944. *Petraites equiradiatus* Milward, 1960.
1945. *Petraites forsteri* (Castelnau, 1872).
1946. *Cristiceps australis* Cuvier & Valenciennes, 1836.
1947. *Cristiceps aurantiacus* Castelnau, 1879.
1948. *Cristiceps argyroleura* Kner, 1865.
1949. *Cristiceps pataecoides* Whitley, 1959.
1950. *Cristiceps amaenus* Castelnau, 1873.
1951. *Neoblennius fasciatus* Castelnau, 1875.
1952. *Peronedys anguillarlis* Steindachner, 1883.
1953. *Sticharium greeni* (E. Scott, 1936).
1954. *Sticharium antarcticum* (Castelnau, 1872).
1955. *Sticharium dorsale* Gunther, 1867.
1956. *Sticharium varium* (McCulloch & Waite, 1918).
1957. *Sticharium gabrieli* (Waite, 1906).
1958. *Sticharium aethiops* (McCulloch & Waite, 1918).
1959. *Ophichlinops pardalis* (McCulloch & Waite, 1918).
1960. *Scleropteryx devisi* (Ogilby, 1894).
1961. *Stenophus marmoratus* Castelnau, 1875.
1962. *Stenophus obscurus* Castelnau, 1875.
1963. *Gunellichthys pleurotaenia* Bleeker, 1858.
1964. *Notograptus livingstonei* Whitley, 1931.
1965. *Notograptus guttatus* Gunther, 1867.
1966. *Notograptus gregoryi* Whitley, 1941.
1967. *Echiodon rendahli* (Whitley, 1941).
1968. *Encheliophis vermicularis* Muller, 1842.
1969. *Carapus homei* (Richardson, 1846).
1970. *Carapus houlti* (Ogilby, 1922).
1971. *Carapus (Onuxodon) margaritiferae* (Rendahl, 1921).
1972. *Brotula multibarbata* (Temminck & Schlegel, 1846).
1973. *Aphyonius gelatinosus* Gunther, 1878.
1974. *Dinematichthys ilucoetcooides* Bleeker, 1855.
1975. *Dinematichthys mizolepis* Gunther, 1867.
1976. *Dermatopsis macrodon* Ogilby, 1896.
1977. *Dermatopsis multiradiatus* McCulloch & Waite, 1918.
1978. *Sirembo everriculi* Whitley, 1936.
1979. *Monothrix polylepis* Ogilby, 1897.
1980. *Dipulus caecus* Waite, 1905.
1981. *Typhlonus nasus* Gunther, 1878.
1982. *Blennodesmus scapularis* Gunther, 1872.
1983. *Congrogadoides malayanus* (Weber, 1909).
1984. *Congrogadoides spinifer* Borodin, 1933.
1985. *Congrogadus subduccens* (Richardson, 1842).
1986. *Dannevigia tusca* Whitley, 1941.
1987. *Geinypterus blacodes* (Bloch & Schneider, 1801).
1988. *Geinypterus microstomus* Regan, 1903.
1989. *Batrachomoeus dubius* (White, 1790).
1990. *Batrachomoeus striatus* (Castelnau, 1875).
1991. *Batrachomoeus broadbenti* (Ogilby, 1908).
1992. *Batrachomoeus dahli* (Rendahl, 1922).
1993. *Halophryne diemensis* (Le Sueur, 1824).
1994. *Cochleocephalus spatula* (Gunther, 1861).
1995. *Aspasmogaster tasmaniensis* (Gunther, 1861).
1996. *Aspasmogaster liorhynchus* Briggs, 1955.
1997. *Aspasmogaster interorbitalis* (Whitley, 1943).
1998. *Creocele cardinalis* (Ramsay, 1882).
1999. *Parvicrepis parvipinnis* (Waite, 1906).
2000. *Lepadichthys frenatus* Waite, 1904.
2001. *Lepadichthys sandaracatus* Whitley, 1943.



2002. *Culius fuscus* (Bloch & Schneider, 1801).
2003. *Culius robustus* (De Vis, 1884).
2004. *Bostrichthys sinensis* (Lacepede, 1802).
2005. *Eleotris planiceps* Castelnau, 1878.
2006. *Eleotris sulcaticollis* Castelnau, 1878.
2007. *Bunaka gyrioides* (Bleeker, 1853).
2008. *Bunaka herwerdenii* (Weber, 1910).
2009. *Odonteleotris macrodon* (Bleeker, 1853).
2010. *Oxyeleotris lineolata* (Steindachner, 1867).
2011. *Gobiomorphus coxii* (Krefft, 1864).
2012. *Mogurnda mogurnda* (Richardson, 1844).
2013. *Mogurnda australis* (Krefft, 1862).
2014. *Mogurnda striata* (Steindachner, 1866).
2015. *Shiypnodon grandiceps* (Krefft, 1864).
2016. *Shipwayia aurea* (Shipway, 1950).
2017. *Carassiops klunzingeri* Ogilby, 1898.
2018. *Carassiops galii* Ogilby, 1898.
2019. *Carassiops compressus* (Krefft, 1864).
2020. *Parioglossus rainfordi* McCulloch, 1921.
2021. *Lindemanella iota* Whitley, 1935.
2022. *Asterropterix semipunctatus quisqualis* Whitley, 1932.
2023. *Butis amboinensis* (Bleeker, 1853).
2024. *Butis butis* (Hamilton-Buchanan, 1822).
2025. *Prionobutis microps* (Weber, 1908).
2026. *Prionobutis (Themistocles) wardi* Whitley, 1939.
2027. *Ophieleotris aporos* (Bleeker, 1854).
2028. *Ophiocara macrolepidotus* (Bloch, 1792).
2029. *Meuschenula darwiniensis* (Macleay, 1878).
2030. *Calteleotris strigata* (Broussonet, 1782).
2031. *Gergobius muralis* (Cuvier & Valenciennes, 1837).
2032. *Gergobius taeniura* (Macleay, 1881).
2033. *Herreolus formosus* (H. M. Smith, 1931).
2034. *Ptereleotris microlepis* (Bleeker, 1856).
2035. *Amblygobius bynoensis* (Richardson, 1844).
2036. *Amblygobius phalaena* (Cuvier & Valenciennes, 1837).
2037. *Eviota distigma* Jordan & Seale, 1906.
2038. *Eviota viridis queenslandica* Whitley, 1932.
2039. *Eviota viridis inutilis* Whitley, 1943.
2040. *Milyeringa veritas* Whitley, 1945.
2041. *Koumansetta rainfordi* Whitley, 1940.
2042. *Austrolethops wardi* Whitley, 1935.
2043. *Munrogonobius semivestitus* (Munro, 1949).
2044. *Nesogobius hinsbyi* (McCulloch & Ogilby, 1919).
2045. *Nesogobius pulchellus* (Castelnau, 1872).
2046. *Istigobius stephensoni* (Whitley, 1932).
2047. *Istigobius interstinctus* (Richardson, 1844).
2048. *Parvigobius immeritus* Whitley, 1930.
2049. *Mars strigiliceps* Jordan & Seale, 1906.
2050. *Cryptocentroides bulbiceps* Whitley, 1953.
2051. *Gobius pauper* De Vis, 1884.
2052. *Gobius princeps* De Vis, 1884.
2053. *Gobius haackei* Steindachner, 1884.
2054. *Gobius microlepidotus* Castelnau, 1875.
2055. *Gobius platystoma* Gunther, 1872.
2056. *Arenigobius tamarensis* (Johnston, 1883).
2057. *Arenigobius bifrenatus* (Kner, 1865).
2058. *Arenigobius frenatus* (Gunther, 1861).
2059. *Arenigobius castelnaui* (Macleay, 1881).
2060. *Favonigobius obliquus* (McCulloch & Ogilby, 1919).
2061. *Favonigobius lateralis* (Macleay, 1881).
2062. *Favonigobius exquisitus* Whitley, 1950.
2063. *Frisigobius neophytus* (Gunther, 1877).
2064. *Innoculus nigroocellatus* (Gunther, 1873).
2065. *Oplopomus caninoides* (Bleeker, 1852).
2066. *Batman insignitus* Whitley, 1956.
2067. *Gnatholepis inconsequens* Whitley, 1958.
2068. *Ctenogobius (Yoga) pyrops* Whitley, 1954.
2069. *Ctenogobius (Aurigobius) auriga* Whitley, 1959.
2070. *Acentrogobius scrutarius* Whitley, 1955.
2071. *Acentrogobius balteatus* (Herre, 1935).
2072. *Drombus halei* Whitley, 1935.
2073. *Drombus halei lepidothorax* Whitley, 1945.
2074. *Chlamydogobius eremius* (Zietz, 1896).
2075. *Ostreogobius macrostoma* (Gunther, 1861).
2076. *Berouva lidwilli* (McCulloch, 1917).
2077. *Gunnamatta insolita* Whitley, 1928.
2078. *Eayrias puntang* (Bleeker, 1851).
2079. *Glossogobius suppositus* (Sauvage, 1880).
2080. *Glossogobius biocellatus* (Cuvier & Valenciennes, 1837).
2081. *Glossogobius gutum* (Hamilton-Buchanan, 1822).
2082. *Tasmanogobius lordi* E. O. Scott, 1935.
2083. *Obtortiothagus koumansii* Whitley, 1933.
2084. *Stenogobius genivittatus* (Cuvier & Valenciennes, 1837).
2085. *Bathygobius fuscus* (Ruppell, 1831).
2086. *Bathygobius watkinsoni* (De Vis, 1884).
2087. *Bathygobius krefftii* (Steindachner, 1866).
2088. *Yongeichthys criniger* (Cuvier & Valenciennes, 1837).
2089. *Yongeichthys leftwichi* (Ogilby, 1910).
2090. *Cryptocentrus cristatus* (Macleay, 1881).
2091. *Cryptocentrus russus* (Cantor, 1850).

2092. *Priolepis nuchifasciatus* (Gunther, 1874).
2093. *Priolepis necopinus* Whitley, 1959.
2094. *Quisquilius macrophthalmus* Weber, 1909.
2095. *Lizagobius olorum* (Sauvage, 1880).
2096. *Waitea maxillaris* (Macleay, 1878).
2097. *Cremornea francoisi* Whitley, 1962.
2098. *Parachaeturichthys polynema* (Bleeker, 1853).
2099. *Mucogobius gobiosoma* Whitley, 1931.
2100. *Callogobius hasseltii* (Bleeker, 1851).
2101. *Callogobius (Crossogobius) mucosus* (Gunther, 1872).
2102. *Metagobius sclateri* (Steindachner, 1880).
2103. *Waiteopsis paludis* Whitley, 1930.
2104. *Waiteopsis stigmaticus* (De Vis, 1884).
2105. *Stigmatogobius johnstoniensis* (Koumans, 1940).
2106. *Gobiichthys papuensis* (Cuvier & Valenciennes, 1837).
2107. *Gobiichthys cornutus* (McCulloch & Waite, 1918).
2108. *Gobiichthys microlepis* (Bleeker, 1849).
2109. *Trichopharynx crassilabris* (Gunther, 1861).
2110. *Paragobiodon echinocephalus* (Ruppell, 1831).
2111. *Gobiodon citrinus* (Ruppell, 1838).
2112. *Gobiodon quinquestrigatus* (Cuvier & Valenciennes, 1837).
2113. *Gobiodon unicolor* (Castelnau, 1873).
2114. *Leme mordax* De Vis, 1883.
2115. *Leme purpurascens* De Vis, 1884.
2116. *Trypauchen wakae* Jordan & Snyder, 1901.
2117. *Ctenotrypauchen microcephalus* (Bleeker, 1860).
2118. *Brachyamblyopus rubrilineatus* (Saville-Kent, 1889).
2119. *Boleophthalmus caeruleomaculatus* McCulloch & Waite, 1917.
2120. *Scartelaos macrophthalmus* (Castelnau, 1873).
2121. *Periophthalmus expeditionum* Whitley, 1953.
2122. *Euchoristopus kalolo* (Lesson, 1831).
2123. *Euchoristopus kalolo regius* Whitley, 1931.
2124. *Periophthalmodon australis* (Castelnau, 1875).
2125. *Remora remora* (Linné, 1758).
2126. *Phtheichthys lineatus* (Menzies, 1791).
2127. *Remoropsis brachyptera* (Lowe, 1839).
2128. *Remoropsis pallidus* (Temminck & Schlegel, 1850).
2129. *Remilegia australis* (Bennett, 1840).
2130. *Rhombochirus osteochir* (Cuvier, 1829).
2131. *Remorina albescens* (Temminck & Schlegel, 1850).
2132. *Echeneis naucrates* Linné, 1758.
2133. *Caracanthus maculatus* (Gray, 1831).
2134. *Rhinopias godfreyi* Whitley, 1954.
2135. *Ruboralga jacksoniensis* (Steindachner, 1866).
2136. *Ruboralga ergastulorum* (Richardson, 1842).
2137. *Ruboralga bellicosa* (Castelnau, 1875).
2138. *Ruboralga sumptuosa* (Castelnau, 1875).
2139. *Parascorpaena aurita grandisquamis* (Ogilby, 1910).
2140. *Oligoscorpaena bandanensis* (Bleeker, 1851).
2141. *Scorpaena stokesii* Richardson, 1846.
2142. *Scorpaena burra* Richardson, 1842.
2143. *Scorpaena armata* Sauvage, 1873.
2144. *Scorpaena moultoni* Whitley, 1961.
2145. *Sebastapistes strongia* (Cuvier & Valenciennes, 1829).
2146. *Sebastapistes bynoensis* (Richardson, 1845).
2147. *Scorpaenopsis diabolus* (Cuvier & Valenciennes, 1829).
2148. *Scorpaenopsis macrochir* Ogilby, 1910.
2149. *Scorpaenopsis palmeri* Ogilby, 1910.
2150. *Scorpaenopsis palmeri furnaceuxi* Whitley, 1959.
2151. *Helicolenus papillosus* (Bloch & Schneider, 1801).
2152. *Neosebastes scorpaenoides* Guichenot, 1867.
2153. *Neosebastes pandus* (Richardson, 1842).
2154. *Neosebastes incisipinnis* Ogilby, 1910.
2155. *Neosebastes thetidis* (Waite, 1899).
2156. *Neosebastes nigropunctatus* McCulloch, 1915.
2157. *Neosebastes panticus* McCulloch & Waite, 1918.
2158. *Macillocosta scabriceps* Whitley, 1935.
2159. *Scorpaenodes scaber* (Ramsay & Ogilby, 1886).
2160. *Scorpaenodes guamensis* (Quoy & Gaimard, 1825).
2161. *Notesthes robusta* (Gunther, 1860).
2162. *Centropogon australis* (White, 1790).
2163. *Centropogon marmoratus* Gunther, 1863.
2164. *Centropogon latifrons* Mees, 1962.
2165. *Paracentropogon vespa* Ogilby, 1910.
2166. *Paracentropogon vespa livingstonei* Whitley, 1933.
2167. *Gymnapistes marmoratus* (Cuvier & Valenciennes, 1829).
2168. *Hypodytes carinatus macrolepidotus* (Ogilby, 1910).
2169. *Hypodytes balnearum* (Ogilby, 1910).
2170. *Apistops caloundra* (De Vis, 1886).
2171. *Liocranium praepositum* Ogilby, 1903.
2172. *Vadesuma scorpio* (Ogilby, 1910).
2173. *Amblyapistis (Parocosia) slacksmithi* Whitley, 1958.
2174. *Richardsonichthys leucogaster* (Richardson, 1843).
2175. *Pterois volitans* (Linné, 1758).
2176. *Pterois volitans castus* Whitley, 1951.
2177. *Pterois (Macrochyrus) lunulata* Temminck & Schlegel, 1843.
2178. *Pterois (Pteroleptus) russelli* (Bennett, 1831).
2179. *Pteropterus antennatus* (Bloch, 1787).



2180. *Brachirus zebra* (Quoy & Gaimard, 1825).
2181. *Glyptauchen panduratus* (Richardson, 1850).
2182. *Glyptauchen panduratus deruptus* Whitley, 1931.
2183. *Glyptauchen insidiator* Whitley, 1931.
2184. *Glyptauchen insidiator mirandus* Whitley, 1931.
2185. *Minous versicolor* Ogilby, 1910.
2186. *Inimicus barbatus* (De Vis, 1884).
- 2186a. *Inimicus cirrhosus* McKay, 1964.
2187. *Dampierosa daruma* Whitley, 1932.
2188. *Erosa fratrum* Ogilby, 1910.
2189. *Peristrominous dolosus* Whitley, 1952.
2190. *Synanceja trachymis* (Richardson, 1842).
2191. *Synanceichthys verrucosus* (Bloch & Schneider, 1801).
2192. *Pterygotrigla polyommata* (Richardson, 1839).
2193. *Pterygotrigla andertoni* Waite, 1910.
2194. *Diaphichthys ferculum* Whitley, 1952.
2195. *Currupiscis volucer* Whitley, 1931.
2196. *Lepidotrigla phalaena* (Cuvier & Valenciennes, 1829).
2197. *Lepidotrigla sphinx* (Cuvier & Valenciennes, 1829).
2198. *Lepidotrigla modesta* Waite, 1899.
2199. *Lepidotrigla alata* (Houttuyn, 1782).
2200. *Lepidotrigla argus* Ogilby, 1910.
2201. *Lepidotrigla spilopectera* Gunther, 1880.
2202. *Lepidotrigla calodactyla* Ogilby, 1910.
2203. *Hatha mulhali* (Macleay, 1884).
2204. *Paratrigla papilio* (Cuvier & Valenciennes, 1829).
2205. *Paratrigla umbrosa* (Ogilby, 1910).
2206. *Paratrigla (Aoygichthys) vanessa* (Richardson, 1839).
2207. *Panichthys picturatus* (McCulloch, 1926).
2208. *Panichthys lingi* Whitley, 1933.
2209. *Ebisinus proene* Ogilby, 1910.
2210. *Dactyloptena orientalis* (Cuvier & Valenciennes, 1829).
2211. *Dactyloptena papilio* Ogilby, 1910.
2212. *Kanekonia queenslandica* Whitley, 1952.
2213. *Adventor elongatus* (Whitley, 1952).
2214. *Aploactisoma milesii* (Richardson, 1850).
2215. *Aploactisoma milesii horrenda* Whitley, 1933.
2216. *Paraploactis trachyderma* Bleeker, 1865.
2217. *Bathyploactis curtisensis* Whitley, 1933.
2218. *Bathyploactis curtisensis ornatisimus* Whitley, 1933.
2219. *Gnathanacanthus goetzeei* Bleeker, 1855.
2220. *Pataecus fronto* Richardson, 1844.
2221. *Aetapcus armatus* (Johnston, 1891).
2222. *Aetapcus vincenti* (Steindachner, 1883).
2223. *Aetapcus maculatus* (Gunther, 1861).
2224. *Neopataecus waterhousii* (Castelnau, 1872).
2225. *Neophrynchthys marcidus* McCulloch, 1926.
2226. *Platycephalus indicus* (Linné, 1758).
2227. *Platycephalus mortoni* Macleay, 1883.
2228. *Cumbel haackei* (Steindachner, 1883).
2229. *Cumbel semermis* (De Vis, 1883).
2230. *Planiprora castelnaui* (Macleay, 1881).
2231. *Planiprora mulleri* (Klunzinger, 1879).
2232. *Planiprora fusca* (Cuvier & Valenciennes, 1829).
2233. *Planiprora cinerea* (Gunther, 1872).
2234. *Planiprora marmorata* (Stead, 1908).
2235. *Neoplatycephalus spcculator* (Klunzinger, 1872).
2236. *Neoplatycephalus richardsoni* (Castelnau, 1872).
2237. *Trudis arenarius* (Ramsay & Ogilby, 1886).
2238. *Trudis bassensis* (Cuvier & Valenciennes, 1829).
2239. *Trudis bassensis westraliae* Whitley, 1938.
2240. *Trudis caeruleopunctatus* (McCulloch, 1922).
2241. *Laeviprora proxima* (Castelnau, 1872).
2242. *Laeviprora inops* (Jenyns, 1840).
2243. *Laeviprora laevigata* (Cuvier & Valenciennes, 1829).
2244. *Longitrudis longispinis* (Macleay, 1884).
2245. *Thysanophrys cirronasus* (Richardson, 1848).
2246. *Suggrundus bosschei* (Bleeker, 1860).
2247. *Suggrundus malayanus* (Bleeker, 1853).
2248. *Suggrundus tuberculatus suggrundus* Whitley, 1933.
2249. *Suggrundus jugosus* (McCulloch, 1914).
2250. *Suggrundus harrisii* (McCulloch, 1914).
2251. *Suggrundus staigeri* (Castelnau, 1875).
2252. *Suggrundus diversidens* (McCulloch, 1914).
2253. *Cymbacephalus nematophthalmus* (Gunther, 1860).
2254. *Repotrudis macracanthus* (Bleeker, 1869).
2255. *Rogadius pristiger* (Cuvier & Valenciennes, 1829).
2256. *Levanaora isacanthus* (Cuvier & Valenciennes, 1829).
2257. *Wakiyus spinosus* (Temminck & Schlegel, 1843).
2258. *Elates thompsoni* (Jordan & Seale, 1907).
2259. *Rhinophlichthys haswelli* (McCulloch, 1907).
2260. *Ophichthys ogilbyi* McCulloch, 1914.
2261. *Congiopodus leucopaeccilus* (Richardson, 1846).
2262. *Perryena leucometopon* (Waite, 1922).
2263. *Lophiomus laticeps* (Ogilby, 1910).
2264. *Tathicarpus subrotundatus* (Castelnau, 1875).
2265. *Tetrabrachium ocellatum* Gunther, 1880.
2266. *Rhycherus filamentosus* (Castelnau, 1872).
2267. *Pterophrynoides histrio* (Linné, 1758).

2268. *Phrynelox striatus* (Shaw & Nodder, 1794).
2269. *Phrynelox pinniceps* (Cuvier & Valenciennes, 1837).
2270. *Batrachopus insidiator* Whitley, 1934.
2271. *Lophiocharon broomensis* Whitley, 1933.
2272. *Lophiocharon goramensis* (Bleeker, 1864).
2273. *Antennarius wrophthalmus* Bleeker, 1851.
2274. *Antennarius trisignatus* (Richardson, 1844).
2275. *Antennarius nummifer* (Cuvier, 1817).
2276. *Antennarius stigmaticus* Ogilby, 1912.
2277. *Antennarius tuberosus* Cuvier, 1817.
2278. *Antennarius pictus* (Shaw & Nodder, 1794).
2279. *Antennarius glauerti* Whitley, 1957.
2280. *Antennarius phymatodes* Bleeker, 1857.
2281. *Phumantennatus asper* (Macleay, 1881).
2282. *Echinophryne glauerti* Whitley, 1944.
2283. *Echinophryne crassipina* McCulloch & Waite, 1918.
2284. *Trichophryne mitchelli* (Morton, 1897).
2285. *Histiophryne bougainvilli* (Cuvier & Valenciennes, 1837).
2286. *Histiophryne scortea* McCulloch & Waite, 1918.
2287. *Histiophryne scortea inconstans* McCulloch & Waite, 1918.
2288. *Caulophryne jordani* Goode & Bean, 1896.
2289. *Melanocetus murrayi* Gunther, 1887.
2290. *Melanocetus johnsoni* Gunther, 1864.
2291. *Himantolophus groenlandicus* Reinhardt, 1838.
2292. *Ceratias holboelli* Kroyer, 1844.
2293. *Cryptoparas pennifer* Regan & Trewavas, 1932.
2294. *Gigantactis* sp. (larva, type A. of Bertelsen, 1951).
2295. *Edriolychnus schmidti* Regan, 1925.
2296. *Linophryne arborifera* Regan, 1925.
2297. *Aceratias indicus* Brauer, 1902.
2298. *Brachionichthys hirsutus* (Lacepede, 1804).
2299. *Brachionichthys politus* (Richardson, 1849).
2300. *Sympterichthys unipennis* (Cuvier, 1817).
2301. *Sympterichthys verrucosus* McCulloch & Waite, 1918.
2302. *Chaunax endeavouri* Whitley, 1929.
2303. *Chaunax penicillatus* McCulloch, 1915.
2304. *Malthopsis luteus provocator* Whitley, 1961.
2305. *Halieutaea brevicauda* Ogilby, 1910.
2306. *Triacanthus biaculeatus* (Bloch, 1786).
2307. *Triacanthus brevirostris* Temminck & Schlegel, 1850.
2308. *Triacanthus falcanalis* Ogilby, 1910.
2309. *Melichthys vidua* (Richardson, 1845).
2310. *Sufflamen fraenatus* (Latreille, 1804).
2311. *Hemibalistes chrysopterus* (Bloch & Schneider, 1801).
2312. *Pseudobalistes fuscus* (Bloch & Schneider, 1801).
2313. *Canthidermes rotundatus* (Proce, 1822).
2314. *Abalistes stellatus* (Anonymous, 1798).
2315. *Rhinecanthus echarpe* (Anonymous, 1798).
2316. *Rhinecanthus aculeatus* (Linné, 1758).
2317. *Balistapus brevissimus* (Hollard, 1854).
2318. *Balistopus undulatus* (Park, 1797).
2319. *Balistoides conspillum* (Bloch & Schneider, 1801).
2320. *Balistoides viridescens* (Bloch & Schneider, 1801).
2321. *Monacanthus geographicus* (Cuvier, 1817).
2322. *Monacanthus macrolepis* Fraser-Brunner, 1941.
2323. *Arotrolepis (Scurrilichthys) barbarae* Fraser-Brunner, 1941.
2324. *Arotrolepis filicauda* (Gunther, 1880).
2325. *Arotrolepis notonecianus* (Whitley, 1931).
2326. *Acreichthys tomentosus* (Linné, 1758).
2327. *Pervagor alternans* (Ogilby, 1899).
2328. *Pervagor melanocephalus* (Bleeker, 1853).
2329. *Choctoderma penicilligera* (Cuvier, 1816).
2330. *Choctoderma maccullochi* Waite, 1905.
2331. *Meuschenia trachylepis* (Gunther, 1870).
2332. *Meuschenia brownii* (Richardson, 1846).
2333. *Meuschenia edelensis* (Castelnau, 1875).
2334. *Meuschenia castelnaui* (Macleay, 1881).
2335. *Meuschenia multiradiata* (Gunther, 1870).
2336. *Meuschenia platifrons* (Hollard, 1854).
2337. *Meuschenia lemniscata* (Lacepede, 1804).
2338. *Meuschenia skottowei* Whitley, 1934.
2339. *Allomonacanthus convexirostris* (Gunther, 1870).
2340. *Tobinia maculosa* (Richardson, 1840).
2341. *Tobina spilomelanura* (Quoy & Gaimard, 1824).
2342. *Amanscs hovensis* (Ogilby, 1889).
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2344. *Amanscs scopas* (Cuvier, 1816).
2345. *Amanscs freycineti* (Quoy & Gaimard, 1824).
2346. *Amanscs melas* (Gunther, 1876).
2347. *Amanscs brunneus* (Castelnau, 1873).
2348. *Amanscs gunnii* (Gunther, 1870).
2349. *Cantherhines homopterus* (Cope, 1871).
2350. *Scobinichthys vittiger* (Castelnau, 1873).
2351. *Scobinichthys granulatus* (White, 1790).
2352. *Penicipelta guntheri* (Macleay, 1881).
2353. *Navodon australis* (Donovan, 1824).
2354. *Navodon setosus* (Waite, 1899).
2355. *Nelussetta galii* (Waite, 1905).



2356. *Nelusetta hypargyrea* (Cope, 1871).  
 2357. *Nelusetta degeni* (Regan, 1903).  
 2358. *Nelusetta ayraud* (Quoy & Gaimard, 1824).  
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 2362. *Weerutta ovalis* T. D. Scott, 1961.  
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 2364. *Acanthaluteres peroni* (Hollard, 1854).  
 2365. *Tantalisor pauciradiatus* Whitley, 1947.  
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 2368. *Paramonacanthus whitleyi* Fraser-Brunner, 1941.  
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 2372. *Pseudomonacanthus elongatus* Fraser-Brunner, 1940.  
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 2377. *Blandowskins bucephalus* Whitley, 1931.  
 2378. *Pseudalutarius nasicornis* (Temminck & Schlegel, 1850).  
 2379. *Aleuterus monoceros* (Linné, 1758).  
 2380. *Osbeckia scripta* (Forster, 1771).  
 2381. *Anacanthus barbatus* Gray, 1831.  
 2382. *Triorus reipublicae* Whitley, 1930.  
 2383. *Triorus pyxis* Whitley, 1930.  
 2384. *Paracanthostracion pentacanthus* (Bleeker, 1857).  
 2385. *Ostracion meleagris* Shaw & Nodder, 1796.  
 2386. *Ostracion tuberculatus* Linné, 1758.  
 2387. *Rhinesomus gibbosus* (Linné, 1758).  
 2388. *Rhynchostracion nasus* (Bloch, 1785).  
 2389. *Rhynchostracion rhinorhynchus* (Bleeker, 1852).  
 2390. *Lactoria cornuta* (Linné, 1758).  
 2391. *Lactoria diaphana* (Bloch & Schneider, 1801).  
 2392. *Capropygia unistriata* (Kaup, 1855).  
 2393. *Strophurichthys inermis* Fraser-Brunner, 1935.  
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 2398. *Acarana aurita* (Shaw & Nodder, 1798).  
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 2400. *Caprichthys gymmura* McCulloch & Waite, 1915.  
 2401. *Cyprichthys mappa* (Lesson, 1831).  
 2402. *Omegophora armilla* (McCulloch & Waite, 1915).  
 2403. *Boesemanichthys firmamentum* (Temminck & Schlegel, 1850).  
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 2419. *Pleuronacanthus spadicus* (Richardson, 1845).  
 2420. *Pleuronacanthus scleratus* (Gmelin, 1788).  
 2421. *Aphanacanthus hamiltoni* (Gray & Richardson, 1843).  
 2422. *Gastrophysus glaber* (Freminville, 1813).  
 2423. *Gastrophysus perlevis* (Ogilby, 1908).  
 2424. *Gastrophysus pleurostictus* (Günther, 1872).  
 2425. *Takifugu oblongus* (Bloch, 1786).  
 2426. *Contusus richei* (Freminville, 1813).  
 2427. *Torquigener tuberculifens* (Ogilby, 1912).  
 2428. *Torquigener tuberculifens vicinus* Whitley, 1930.  
 2429. *Torquigener piosae* Whitley, 1955.  
 2430. *Chelonodon dapsilis* Whitley, 1943.  
 2431. *Liosaccus aerobicaticus* Whitley, 1928.  
 2432. *Canthigaster valentini* (Bleeker, 1853).  
 2433. *Canthigaster bennetti* (Bleeker, 1854).  
 2434. *Canthigaster callisternus* (Ogilby, 1889).  
 2435. *Canthigaster axiologus* Whitley, 1931.  
 2436. *Canthigaster janthinopterus* (Bleeker, 1855).  
 2437. *Dicotylichthys myersi* Ogilby, 1910.  
 2438. *Atopomycterus nithemerus* (Cuvier, 1818).  
 2439. *Alomycterus pilatus* Whitley, 1931.  
 2440. *Tragulichthys jaculiferus* (Cuvier, 1818).  
 2441. *Diodon hystrix* Linné, 1758.  
 2442. *Diodon armillatus* Whitley, 1933.  
 2443. *Diodon holocanthus* Linné, 1758.  
 2444. *Diodon bleekeri* Günther, 1910.  
 2445. *Mola ramsayi* (Giglioli, 1883).  
 2446. *Triurus laevis* (Pennant, 1776).  
 2447. *Masturus lanceolatus* (Lienard, 1840).

## NEW SYNONYMS.

When certain generic groups are better understood, a number of nominal species in the Australian list will no doubt prove to be synonyms of others. There is still a "hard core" of unrecognized "*Eleotris*" spp. and "*Gobius*" spp., still to be rediscovered in Australia and placed in their correct genera, and the family Aleuteridae is badly in need of revision. Meanwhile, the new synonyms listed below are noteworthy. References to literature will mostly be found in McCulloch (1929) at the page-numbers listed on the left. The final name in each equation is regarded as being the correct modern one.

112. *Rhombosoma trifasciata* Rendahl, 1922 = *Melanotaenia nigrans* Richardson, 1843.  
 291. *Amphiprion xanthurus* Cuvier & Valenciennes, 1830 = *Sparus milii* Bory, 1831 = *Amphiprion melanostolus* Richardson, 1842 = *Amphiprion clarkii* (Bennett, 1830).  
 324. *Neodax waterhousii* Castelnaud, 1875 = *Odax obscurus* Castelnaud, 1872 = *Neodax balteatus* (Cuvier & Valenciennes, 1839).  
 326. *Heteroscarus macleayi* McCoy, 1888 = *Heteroscarus acroptilus* (Richardson, 1846).  
 347. *Vauchusella calva* Whitley, 1944 = *Helcogramma decurrens* McCulloch & Waite, 1918.  
 364. *Eleotris nudiceps* Castelnaud, 1872 = *Philypnodon grandiceps* (Kreff, 1864).  
 365. *Eleotris simplex* Castelnaud, 1878, and *E. modesta* Castelnaud, 1873 = *Carassiops compressus* (Kreff, 1864).  
 405 & 407. *Tathicarpus mucosus* and *T. butleri* Ogilby, 1907, and *T. appeli* Ogilby, 1922 = *Tathicarpus subrotundatus* (Castelnaud, 1875).  
 407. *Phrynelox (Triantennatus) zebrius* Schultz, 1957 = *Phrynelox striatus* (Shaw & Nodder, 1794).  
 407. *Phrynelox atra* Schultz, 1957 = *Batrachopus insidiator* Whitley, 1934.  
 434. *Dicotylichthys myersi* still stands. Le Danois (1959) made the specific name a synonym of "*diversispinis* Verreaux, 1847", but Verreaux's name was only in unpublished manuscript, so cannot be dated back to 1847. Other species are ascribed by Le Danois to much "earlier" names, some pre-Linnean and others seventeenth-century, but such synonymizing is not permissible nowadays.

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